BENGAL SECRETARIAT LIBRARY.

PROGRESS REPORT

ON

FOREST ADMINISTRATION

IN

LOWER BURMA

FOR

1887-88.

By Colonel W. J. SEATON and E. P. POPERT, Esq.,
CONSERVATORS OF FORESTS.

WITH A REVIEW BY THE CHIEF COMMISSIONER, AND THE ORDERS OF THE GOVERNMENT OF INDIA.

RANGOON:
PRINTED BY THE SUPERINTENDENT, GOVERNMENT PRINTING, BURMA.

1889.

BENGAL SECRETARIAT LIBRARY.

No. 1066F., dated Simla, the 25th October 1888.

From—W. R. LAWRENCE, Esq., C. S., Officiating Secretary to the Government of India, Revenue and Agricultural Department,

To—The Chief Commissioner of Burma.

I AM directed to acknowledge the receipt of your letter No. 259-27M., dated the 11th ultimo, submitting the Progress Report of Forest Administration in Lower Burma during the year 1887-88, with your Resolution thereon.

2. The area of Reserved Forests was increased by 303 square miles, of which 300 fall to the share of the Tenasserim Circle. The progress of reservation in the Pegu Circle has for some years been almost at a stand-still, owing to the disturbed state of the country, which absorbs the whole time of the Administration in all its branches, and prevents the deputation of officers on Forest Settlements. Schemes for the further reservation of large areas are, however, under consideration, and will, it is understood, be proceeded with as soon as the pacification of the country is completed and officers are set free for other work.

3. The Report contains, as desired by the Government of India, information regarding the state of the boundaries of forest Reserves. The information is, on the whole, satisfactory, and though, during the last few years, boundary inspections were, on account of the unsettled state of the country, nowhere so thorough as might have been desirable, the Report nevertheless shows that, wherever possible, considerable attention has been paid to this important subject. The demarcation of forest estates is apparently largely effected by means of continuous blaze-lines, on which boards or tablets, bearing serial numbers, are affixed to trees at a certain distance. This method of demarcation forms a good boundary within the forests ; and though the blaze-marks require renewal every few years, this is not an unqualified evil, as the operation necessitates periodical boundary inspections, and keeps the subordinate establishment acquainted with the boundaries in their ranges and beats.

4. The work of the Topographical Survey party was again restricted to the Pegu-Circle. The surveyors were not hampered by dacoits, as in the previous year, and, in consequence, were able to survey a larger area, and at a rate, which, though cheaper than before, still amounts to upwards of Rs. 300 per square mile for the 4-inch survey. The 2-inch survey adopted for Unclassed forests costs only Rs. 84 per square mile. In the Tenasserim-Circle, some rough departmental surveys were undertaken ; but it is not stated whether, as suggested in paragraph 4 of the Government of India's review of the Report for 1886-87, the advice of the Superintendent of Forest Surveys was taken in regard to them ; and the presumption is that it was not taken.

5. Working-Plans were completed for the Minhla, Myaung, Gamôn, and Taung Reserves.

It is undeniable that the staff of officers, which, owing to the help required in Upper-Burma, and for other reasons, was at one time reduced to nine officers in the Pegu-Circle, against a sanction of 15, was unable to cope with any but the most urgent requirements of Forest Administration, and it is on this account that no new Working-Plans were submitted during the year. The progress made in examining forest areas, and in collecting data for future Working-Plans and Plans-of-Operations, has been as satisfactory as circumstances would permit. The Tenasserim-Circle appears, in respect of regular Working-Plans, to be far behind Pegu.

6. As regards Fire-Protection, the year has not been successful. The following is a comparative statement showing the results, as compared with those of 1886-87 :—

Circle.	Area, in square miles.			Proportion of Failures to Area Attempted.	Cost.		Proportion of area under Fire-protection to total area of Reserves (excluding *taungyas*.)
	Attempted.	Failures.	Protected.		Per square mile protected	Per acre protected.	
				Per cent.	Rs.	Pies.	Per cent.
Pegu	186	54	133	29	79	24	6
Tenasserim	123	39	84	32	48	14	7
Total in 1887-88 ...	309	93	216	30	67	20	7
,, 1886-87 ...	303	23	280	8	51	15	7
Increase or decrease in 1887-88.	+6	+70	—64	+22	+16	+5	...

The season was unfavourable, the hot weather protracted, and the usual early showers entirely absent, and much trouble was caused by incendiaries and dacoits, who, driven from the open country, had to take refuge in the forests. A particularly grave feature is that considerable areas of plantations were burnt through, amounting in the Pegu-Circle alone to upwards of 4,000 acres. Considerable sums of money were spent on these areas, and they were, it is understood, in a flourishing condition. The Government of India would be glad if you would instruct the Conservator to make a careful examination of the areas that thus suffered, in order to ascertain and record the amount of damage, which cannot be gauged the first season after a fire.

7. The area of Regular Plantations was increased by 19 acres, and that of Teak Taungyas was brought, by the addition of 1,796 acres, to the considerable area of 13,455 acres, of which 3,824 acres belong to the Tenasserim-Circle and 9,631 to Pegu. The results of these operations show, year after year, a greater measure of success in the Pegu than in the Tenasserim-Circle; and in the year under review the number of plants per acre averages in the former Circle upwards of 1,000—a result which would be satisfactory in any Regular Plantation. The progress made in clearing the plantations of bamboos, soft woods, and creepers has been satisfactory, and attention has been given to the extension of these operations, by means of the regular annual girdling parties, to the great advantage of natural reproduction and advance growth in the open forest.

The remarks made by the Conservators regarding the cultivation of exotics are interesting, but contain nothing of special importance.

8. The number of Teak trees girdled inside the Reserves exhibits an increase of 5,167, showing without doubt that the stock of available mature trees in unreserved lands is coming at last to its long expected end. The quantity available had been largely underestimated in 1881. The amount of timber extracted from Government forests is well exhibited in paragraph 11 of your Resolution, and paragraph 13 gives a clear picture of the progress made, as regards Revenue. The financial results, as shown in the following table, are satisfactory :—

Circle.	Receipts.	Charges.	Surplus.	Proportion of Surplus to gross Receipts.
	Rs.	Rs.	Rs.	Per cent.
Pegu	16,75,094	7,03,320	9,71,774	58
Tenasserim	5,43,803	3,29,374	2,14,429	39
Total in 1887-88 ...	22,18,897	10,32,694	11,86,203	53
,, 1886-87 ...	19,98,667	10,75,830	9,22,837	46
Increase or decrease in 1887-88	+2,20,230	—43,136	+2,63,366	+7

These figures do not, as regards 1887-88, include any revenue or expenditure pertaining to Upper Burma. Rs. 9,72,000 of the total Surplus of Rs. 11,86,000 fall to the share of the Pegu-Circle.

9. It is a pleasure to His Excellency the Governor-General in Council to be able to endorse your commendation of the Forest Service generally, and more especially your favourable mention of Mr. Popert and Colonel Seaton.

In conclusion, I am to convey to you the thanks of the Government of India for the able way in which you administer the Forest resources of the country, and for your clear review of the year's operations.

Appendix showing a discrepancy noticed in the Forms appended to the Report of Forest Administration in Lower Burma for 1887-88.

FORM NO. 50.

(Breaches of Forest Rules.)

The number of *cases* compounded in the Pegu Circle should have been entered at the foot of this Form, as has been done for the Tenasserim-Circle. The Conservator, in paragraph 15 of his Report, gives the number of *persons* involved in such cases; but, in view to uniformity in the preparation of statistics for both Circles, the number of *cases* dealt with under Section 66 of the Burma Forest Act should be given in future.

G. C. Press, Simla.—No. 670 E. & A. D.—3-11-88.—250.

TABLE OF CONTENTS.

RESOLUTION BY THE CHIEF COMMISSIONER.

	Para.	Page.
Submission of reports ...	1	1
General Results.		
General results of the year's work	2	1
Reservation of Forests.		
Reservation of forests ...	3	1
Forest surveys ...	4	2
Working Plans.		
Working plans ...	5	2
Offences against Forest Rules.		
Forest offences ...	6	2
Protection of Reserves.		
Forest fires and fire-protection ...	7	2
Reproduction and Improvement of Forest Growth.		
Regular teak plantations ...	8	3
Teak taungya-cultivation ...	9	ib.
Girdling Operations.		
Girdling operations ...	10	3
Timber worked out of the Forests.		
Timber worked out of the forests ...	11	3
Extraction of unreserved timber by purchasers ...	12	4
Revenue.		
Gross forest revenue ...	13	4
Increase in receipts ...	14	ib.
Expenditure ...	15	ib.
Imports and Exports of Teak.		
Imports and exports of teak ...	16	5
Acknowledgment of services ...	17	ib.

TENASSERIM CIRCLE.

CHAPTER I.

Area and Boundaries.

1.—Area.

Increase to area of reserved forests ...	1	1
Forest settlement work. Proposals for additional reserves ...	2	ib.

2.—Boundaries.

Final demarcation of boundaries of the Ngawun and Yachaung reserves ...	3	2
Inspection of reserves with reference to the condition of the boundaries ...	4	ib.

CHAPTER II.

Surveys, Working Plans, and Annual Plans of Operations.

1.—Surveys.

Examination of the outlying teak tracts in the Attaran valley ...	5	2

2.—Working Plans.

Data for working plans ...	6	3

3.—Annual Plan of Operations.

Annual plan of operations ...	7	3

CHAPTER III.

Protection and Improvement.

General Remarks.

Forest rules ...	8	3

1.—Establishments.

Cost of establishments ...	9	3

2.—General Protection and Breaches of the Forest Law.

Breaches of forest rules within reserves ...	10	3
Breaches of forest rules in unreserved forests ...	11	ib.
Amount paid to informers ...	12	4

	Para.	Page.
3.—Forest Fires.		
General results of fire-protection	13	4
West Salween division. Direct fire-protection	14	ib.
East Salween division. Direct fire-protection	15	5
Attaran division. Direct fire-protection	16	ib.
Fire-protection of large areas by indirect measures	17	6
4.—Grazing.		
Grazing	18	6
5.—Natural Reproduction.		
No measures undertaken on a large scale	19	6
6.—Artificial Reproduction.		
Taungya teak plantations	20	6
Results of planting in West Salween division	21	7
Results of planting in the East Salween and Attaran divisions	22	ib.
Total area cultivated with teak up to date	23	ib.
Expenditure on planting	24	ib.
7.—Cutting of Creepers, Weeding, &c.		
Weeding	25	7
8.—Experiments with Exotics and other Trees.		
Cultivation of *Para* India-rubber (*Hevea Brasiliensis*) near Mergui	26	8
Cultivation of *Castilloa elastica* in the plantation near Mergui	27	ib.
Cultivation of *Ceara* (*Manihot glaziovii*)	28	ib.
Cultivation of *Ficus macrophylla* in Mergui plantation	29	ib.
Cultivation of mahogany	30	ib.
Cultivation of other species at the Mergui plantation	31	ib.
Experimental cultivation undertaken with the provincial grant	32	ib.
Expenditure on the Mergui plantation	33	ib.
Experimental cultivation of mahogany at Amherst and Moulmein	34	9
9.—Communications and Buildings.		
Buildings repaired and constructed	35	9
Steam-launch *Attaran* attached to the Kado division	36	ib.
CHAPTER IV.		
YIELD AND WORKING.		
1.—Departmental Operations.		
Extraction of teak timber by Government contractors	37	9
Extraction of timber of other kinds	38	10
Conversion of timber	39	ib.
Shipping operations	40	ib.
Public sales and disposals at depôt...	41	ib.
Disposals in the forests and locally	42	ib.
Collection of drift timber	43	ib.
2.—Girdling.		
Girdling work	44	11
3.—Removal of Timber by Purchasers.		
Teak timber removed from the forests by leaseholders	45	11
Timber other than teak removed from leased forests	46	ib.
Timber from the leased forests on which duty was collected at the revenue station ...	47	12
Timber removed from the forests under trade licenses	48	ib.
Minor forest produce	49	ib.
Free grants	50	ib.
4.—Summary of Produce removed from the Forests.		
Total outturn	51	13
5.—Import and Export of Forest Produce.		
Import trade during the year	52	13
Foreign teak imported by the Salween and reported at the Kado revenue station ...	53	ib.
Decrease in importation	54	ib.
Comparison with the importation of previous years	55	ib.
Foreign timber of other kinds imported by the Salween	56	ib.
Transactions in foreign timber at the Kado revenue station	57	ib.
Registration of hammer-marks	58	ib.
Total quantity of foreign timber imported into Moulmein from the Kado revenue station ...	59	14
Export trade of teak to Europe	60	ib.
Export trade of teak timber of Indian markets	61	ib.
Export trade of other kinds of wood	62	15
Exports of timber from Moulmein	63	ib.

CHAPTER V.

Financial Results.

	Para.	Page.
Revenue and expenidture	64	15
Comparison with figures of budget estimate	65	ib.
Expenditure	66	16
Outstandings	67	ib.

CHAPTER VI.

General Remarks.

Changes in the controlling establishment	68	16
Health of superior officers	69	ib.
Subordinate forest establishment	70	ib.
Health of subordinate forest establishment	71	17
Organization of forest ranges and beats	72	ib.
Elephant establishment	73	ib.
Purchase of elaphants for other departments	74	ib.
Interchange of seeds, &c.	75	ib.
Tours of the Conservator	76	ib.
Services of officers and subordinates	77	ib.

PEGU CIRCLE.

CHAPTER I.

Area and Boundaries.

1.—Area.

Addition to area of reserves	1	1
New proposals for reserves	2	ib.
Proposals made in 1885-86 still unsettled	3	ib.
Area of Nyanlè reserve, Tharrawaddy division	4	ib,
Total area of sanctioned reserves at close of year	5	ib.

2.—Boundaries.

Report on demarcation (asked for in Government of India Resolution on previous year's report)	6	1

CHAPTER II.

1.—Surveys.

Forest survey	7	2

2.—Working Plans.

Field work of Working Plans division	8	2

3.—Annual Plan of Operations.

Annual plans adhered to	9	2

CHAPTER III.

Protection and Improvement.

1.—Establishments.

Weakness of controlling staff	10	2
Scale of subordinate establishment unchanged	11	3
Increased subordinate establishment necessary	12	ib.

2.—General Protection and Breaches of Forest Law.

Prosecution for breaches of forest law	13	3
Encroachment upon reserved forests	14	ib.
Offences compounded by Divisional Officers under section 66	15	ib.

3.—Forest Fires.

General result of fire-protection	16	4
Detail for the Prome division	17	ib.
Tharrawaddy division fire-protection	18	ib.
Rangoon division fire-protection	19	ib.
Fire-protection, Toungoo division	20	5
Comparison of fires with previous year	21	ib.

4.—Grazing.

Grazing-fees realized	22	5

5 and 6.—Reproduction by Natural and Artificial means.

Increase to regular plantations	23	5
Prome division teak taungyas	24	6
Teak taungyas in the Tharrawaddy division	25	ib.

	Para.	Page.
Taungya plantations in the Kangyi reserve	26	6
Rangoon division teak taungyas	27	ib.
Toungoo division teak taungyas	28	ib.
Total area of teak taungyas in the circle	29	ib.
Flowering of bamboos in the Tharrawaddy division	30	ib.
7.—Cutting Creepers, Weeding, and Thinning.		
Prome plantation thinned	31	6
Creeper-cutting and weeding, Magayi plantations	32	ib.
Clearing and creeper-cutting in Kyetpyugan plantations	33	ib.
Kanni plantations cleared of creepers	34	7
Removal of soft woods and creepers in taungya plantations	35	ib.
Sowings in Nyanlè and Bôndaung cleared	36	ib.
Clearing old taungyas	37	ib.
Works of improvement by girdling party	38	ib.
8.—Experiments and Exotics.		
Cutch-sowing in Pyunchaung reserve	39	7
Mahogany	40	ib.
Ficus elastica and Mysuriensis		
Ceara		
Vanilla		
Morus multicaulis		
Thandaung	41	ib.
Tharrawaddy forest garden	42	ib.
9.—Communications and Buildings.		
(a).—Roads, Bridges, Streams.		
Clearing streams, &c.	43	8
(b).—Buildings.		
Expenditure upon bungalows, rest-houses, &c.	44	8
CHAPTER IV.		
YIELD AND WORKING.		
1.—Departmental Operations.		
Departmental extraction of teak	45	9
Teak from forests formerly held by lessees	46	ib.
Extraction of woods other than teak	47	ib.
Contractors' outstandings	48	ib.
2.—Removal of Produce by Purchasers.		
(a).—Timber.		
Timber extracted from reserve	49	10
Reserved woods from unreserved forests	50	ib.
(b).—Minor Forest Produce.		
Minor produce from reserved forests	51	10
Minor produce from unreserved forests	52	11
3.—Free Grants.		
Free grants of timber	53	11
4.—Summary of Outturn.		
Total outturn from all divisions	54	11
5.—Drift Operations.		
Drift collections	55	12
6.—Girdling.		
Girdling operations	56	12
7.—Disposals and Sale Depôts.		
Local sales	57	12
Timber depôt at Rangoon	58	13
Summary of sales from Rangoon depôts	59	ib.
Approximate value of stock of timber at depôt	60	ib.
CHAPTER V.		
IMPORTS AND EXPORTS OF TIMBER, &c.		
Imports and exports of timber, &c.	61	13

CHAPTER VI.

Financial Results.

	Para.	Page.
Financial results	62	14
Comparison with previous years	63	ib.
Detailed comparison with previous year—		
(*a*)I.—Revenue and expenditure	64	ib.
(*b*)II.—Receipts and disbursements	65	ib.
(*c*).—Drift operations	66	ib.
(*d*).—Miscellaneous	67	ib.
(*e*).—Live-stock, stores, &c.	68	ib.
(*f*).—Buildings	69	ib.
(*g*).—Plantations, working plans, &c.	70	ib.
(*h*).—Cost of establishment	71	ib.
Financial results arranged divisionally	72	15
Summary of receipts and charges	73	ib.

General.

Timber markets	74	15
Act and rules	75	ib.
Elephants	76	ib.
Steam-launch *Forester*	77	ib.
Controlling officer	78	ib.
Executive staff	79	16
Office and agency	80	ib.

APPENDICES.

	Page.
Annual Form No. 49 (Prescribed).—Area of reserved forests in the Tenasserim and Pegu circles for the year 1887-88	ii.
Annual Form No. 50 (Prescribed).—Prosecutions for breaches of forest rules during the year 1887-88	vi.
Annual Form No. 51 (Prescribed).—Area of forest tracts protected from fire during the dry season of 1888 (to accompany report for 1887-88)	vii.
Annual Form No. 52 (Prescribed).—Statement showing the area of plantations in the Tenasserim circle for 1887-88	ix.
Annual Form No. 52 (Prescribed).—Statement showing the area of plantations in the Pegu circle for 1887-88	x.
Annual Form No. 52A.—Statement of taungya, teak, thitka, and padauk plantations in the Tenasserim circle for 1887-88	xi.
Annual Form No. 52A.—Statement of taungya, teak, cutch, &c., plantations in the Pegu circle for 1887-88	xii.
Annual Form No. 53 (Prescribed).—Statement showing number of trees felled or girdled by Government agency in the Tenasserim circle during 1887-88	xiii.
Annual Form No. 53 (Prescribed).—Statement showing number of trees felled or girdled by Government agency in the Pegu circle during 1887-88	ib.
Form No. 54.—Statement of outturn of timber and firewood in the Tenasserim circle during 1887-88	xiv.
Form No. 54.—Statement of outturn of timber and firewood in the Pegu circle during 1887-88	xvi.
Form No. 55.—Statement showing outturn of minor forest produce in the Tenasserim circle for 1887-88	xviii.
Form No. 55.—Statement showing outturn of minor forest produce in the Pegu circle for 1887-88	xix.
Annual Form No. 56 (Prescribed).—Account of timber and other produce cut or collected by Government agency and brought to sale depôts or sold locally in the Tenasserim and Pegu circles during 1887-88	xxi.
Annual Form No. 56A.—Account of timber and other produce cut or collected by Government agency and brought to sale depôts or sold locally during the year 1887-88	xxiv.
Form No. 57 (Prescribed).—Abstract showing the value of timber and other produce of sale depôts for the year 1887-88	xxvi.
Form No. 57A.—Abstract showing the value of live and dead stock for the year 1887-88	xxvii.
Form No. 58 (Prescribed).—Summary of revenue of the different divisions during 1887-88	xxviii.
Form No. 58 (Prescribed).—Summary of expenditure of the different divisions during 1887-88	xxix.
Annual Form No. 59 (Prescribed).—Account current for the year 1887-88	xxx.
Annual Form No. 59 (Prescribed).—Account current for the year 1887-88	xxxi.
Annual Form No. 59A.—Account current for the year 1887-88	xxxii.
Annual Form No. 60 (Prescribed).—Revenue received and outstandings on account of revenue during 1887-88	xxxiii.
Annual Form No. 61 (Prescribed).—Statement of outstandings and liabilities on account of contractors and disbursers for 1887-88	xxxiv.
Annual Form No. 62 (Prescribed).—Statement showing the financial results in the Tenasserim and Pegu circles for 1887-88	xxxv.
Appendix A.—Statement showing the cost of feed of elephants of the Forest Department for the official year 1887-88 as compared with that of the Commissariat Department for the same period	xxxvi.
Appendix B.—List of buildings of which the cost exceeds Rs. 200 and for occupation of which no rent is paid	xxxvii.
Appendix C.—Statement showing the export of timber and other forest produce from the port of Rangoon during the official year 1887-88 (private and Government)	xxxviii.
Appendix C (*a*).—Statement showing the imports of timber and other forest produce into the port of Rangoon during the official year 1887-88 (private and Government)	xxxix.

	Page.
Appendix C (1).—Statement showing the exports of teak timber from Moulmein during the year 1887-88	xl.
Appendix C (2a).—Statement showing the exports of shingles, sleepers, railway keys, and woods [illegible] kinds from Moulmein, Tavoy, and Mergui during 1887-88	ib.
Appendix C (2b).—Statement showing the exports of boat-hulls and other timber from the port of Tavoy during 1887-88	ib.
Appendix C (3).—Statement showing the exports of minor forest produce from the ports of Mergui, Tavoy, and Moulmein during 1887-88	xli.
Appendix C (4).—Statement showing the imports of timber and other forest produce during the year 1887-88 into the ports of Mergui, Tavoy, and Moulmein	ib.
Appendix D.—Statement of teak and other trees girdled during season 1887-88 in the Tenasserim circle	xlii.
Appendix D.—Statement of teak trees girdled during season 1887-88 in the Pegu circle ...	ib.
Appendix E.—Statement of outturn of foreign timber for the five years 1883-84 to 1887-88 ...	xlv.
Appendix F.—Statement showing the exports of timber and other forest produce from Moulmein during the year 1887-88	xlvii.
Appendix G.—Summary of revenue of the different divisions of the Tenasserim circle during 1887-88	xlviii.
Appendix G.—Summary of expenditure of the different divisions of the Tenasserim circle during 1887-88	xlix.
Appendix H.—Number of logs imported by the principal thitgaungs during the year 1887-88 ...	l.
Appendix I.—List showing the names of the principal exporters of teak from the 1st April 1887 to the 31st March 1888	ib.
Appendix J.—Statement showing the sale prices of teak timber at home during each month of the official year 1887-88	ib.
Appendix J (1).—Statement showing the market rate of teak timber in the Indian market for the year 1887-88	li.
Appendix K.—Selling rates in the home market for 1887-88—Churchill and Sims	ib.
Appendix L.—Annual return of jungle woods and bamboos passed at the Government timber depôt and Pazundaung revenue station from 1st April 1887 to 31st March 1888... ...	ib.
Appendix M.—Averages of sales at the Rangoon central depôt, 1887-88	ib.
Appendix N	lii.
Appendix O	liii.
Appendix P	liv.

SECRETARIAT LIBRARY.

RESOLUTION

ON THE

FOREST ADMINISTRATION REPORT

OF

LOWER BURMA

For the year 1887-88.

Extract from the Proceedings of the Chief Commissioner, Burma, in the Forest Department,—No. 27M., dated the 3rd September 1888.

READ—

Reports of Conservators on the administration of the forests in the Tenasserim and Pegu circles for the year 1887-88.

RESOLUTION.—The report for the Tenasserim circle was received on the 14th June, a fortnight before the date on which it was due. The report for the Pegu circle was received on the prescribed date.

GENERAL RESULTS.

General results of the year's work.

2. The area of reserved forests in Lower Burma was increased by 303 square miles. The total area is now 5,091 square miles. The area successfully protected from forest fires was only 137,986 acres compared with 181,215 acres in 1886-87. The dry season was unusually long and unfavourable for fire-protecting operations. The area of taungya teak plantations was increased by 1,776 acres, the entire area under this form of cultivation being now 12,427 acres. The number of teak trees girdled during the year was 17,772 against 17,474 in the year before. The quantity of teak extracted from the forests was 42,331 tons, or 2,736 tons less than in 1886-87. The gross forest revenue amounted to Rs. 22,18,897 and the expenditure to Rs. 10,32,694 compared with Rs. 19,98,667 and Rs. 10,75,830 respectively in 1886-87, the net revenue being Rs. 11,86,203, or Rs. 2,63,366 more than in the previous year. These figures do not include any revenue or expenditure obtained from, or incurred on account of, the Upper Burma forests, which are being dealt with in a separate Resolution. The increase of revenue was due in a great measure to large expansion of the trade in cutch and partly to a rise in the price of teak.

RESERVATION OF FORESTS.

Reservation of forests.

3. The area of reserved forests in the Tenasserim circle was increased by 300 square miles, one reserve of that size, the Ngawun-chaung Reserve in the Mergui district, having been added during the year. The total area of the reserves in the Tenasserim circle is now 1,793 square miles. Proposals for the reservation of several small areas were in a more or less advanced stage when the year closed. In the Pegu circle only 3 square miles were added during the year to the already reserved area of 3,295 square miles. A small reserve of 8 miles was formed, but 3 miles of reserve

were deforested and the area of another reserve was found to be 2 miles less than had previously been reckoned. The total reserved area in the Pegu circle at the close of the year was thus 3,298 square miles. This area will be considerably increased as soon as Civil Officers can be spared to deal with proposals which have been made for further reservation.

Forest surveys.

4. The topographical survey party under Mr. Hörst was not troubled by dacoits as in the year before and was consequently able to get over a much larger area than last year. The party worked in the Tharrawaddy and Prome districts, and executed the detail survey of 199¼ square miles inside reserves and of 16½ miles of Karen areas on the 4-inch scale, besides 93 square miles of unreserved forest on the 2-inch scale. No triangulation or traverse survey work was done. Next season it is expected that the survey of the reserves in the Prome and Thayetmyo districts as far as the old frontier will be finished and that the survey of reserved forests in the Toungoo district will be begun.

Working Plans.

Working plans.

5. No working plans were prepared during the year; but a large amount of field work was done by the Working Plans division and material collected for the preparation of working plans of five reserves in the Pegu circle. As noted in the Chief Commissioner's Resolution on the Report for 1886-87 the working plans of the Kôn-Bilin, Kadin-Bilin, and Môkka Reserves were sanctioned early in the year under review.

Offences against Forest Rules.

Forest offences.

6. There were 162 cases in the Tenasserim circle of breach of forest rules, or 73 less than in 1886-87, and convictions were obtained in 151 instances. Besides these 108 cases were compounded by Forest Officers. There were also three minor cases of trespass in reserves. In the Pegu circle there were 133 prosecutions, or two less than in the year before, and 117 convictions were obtained. A large number of cases were also compounded. One case of cutting undersized cutch trees was a very serious one. The license-holder was prosecuted, convicted, and sentenced to six months' imprisonment and a fine of Rs. 1,000. On appeal this sentence was confirmed, but it was reversed by the Judicial Commissioner in revision on a point of law. The circumstances have already been reported to the Government of India, who have sanctioned the institution of a civil suit for damages against the offender.

Protection of Reserves.

Forest fires and fire-protection.

7. Much damage by fire was done to the reserves in the Tenasserim circle. Incendiaries and dacoits caused many of the fires that broke out, while, apart from this, the very long dry season made effective fire-protection a matter of more than ordinary difficulty. Out of 79,056 acres, the protection of which from fire was attempted, only 53,599 acres escaped injury compared with 77,766 acres in the previous season. In the Pegu circle the record of the year is equally unfavourable. Fire-protection was attempted over 118,779 acres, of which 34,392 acres were burnt, leaving 84,387 acres saved from fire against 103,149 acres in 1886-87. In some cases the fires are believed to have been the work of dacoits. It may be

that, as they were driven from the open country, dacoits were more frequently than in the previous year compelled to take refuge in the forests. The formation of dacoit camps in the forests may have led to outbreaks of accidental fires without any overt acts of incendiarism. The chief reason of the increase of fires was doubtless the prolonged dry season, which kept the grass and leaves dry and inflammable for a much longer period than usual. It is not reassuring to read that several of the fires were due to the neglect and carelessness of paid contractors and servants of the department. The expenditure in Tenasserim circle amounted to Rs. 3,998, or 1 anna 2 pies per acre on the area saved from fire. In Pegu circle Rs. 10,461 were spent with this object, or 2 annas per acre on the area successfully protected. There is nothing in the report of either circle to show whether the method of recording the results of fire-protection upon map tracings advocated in circular No. 5, dated the 14th July 1887, of the Inspector General of Forests, has been adopted.

Reproduction and Improvement of Forest Growth.

Regular teak plantations.

8. The only addition made to the area of the teak plantations in the Pegu circle was the extension of the Kyetpyugan and Magayi plantations by 2 and 17 acres respectively. The total area of the teak plantations in the circle is now 3,824 acres. The Kyetpyugan plantation now covers 798 acres and there is no more land left to admit of its further extension. Only 23 acres, as before, are under regular plantation in the Tenasserim circle.

Teak taungya-cultivation.

9. In Tenasserim the planting of teak in taungyas continued to be successfully carried on, 799 acres having been brought under cultivation with very good results, the total area in the circle being now 3,816 acres. In the Pegu circle 977 acres were similarly planted up with excellent results. The Pegu teak taungya area is now 8,360 acres. No cutch taungya-planting was done during the year.

Girdling Operations.

Girdling operations.

10. Operations in the Tenasserim circle consisted of the girdling of 872 trees inside, and of 250 trees outside, reserved forests compared with 470 and 556 trees respectively in 1886-87. Fewer suitable trees were found outside reserves than had been expected. In the Pegu circle 5,505 trees inside, and 11,095 trees outside, reserves were girdled during the year, or 600 trees in excess of the number estimated. In the previous year 16,448 trees were girdled.

Timber worked out of the Forests.

Timber worked out of the forests.

11. The quantity of timber of all kinds extracted from the Government forests during the year was as follows :—

	Teak.	Other kinds.	Total.
	Tons.	Tons.	Tons.
By Government agency	39,755	1,647	41,402
By purchasers and under trade permits	1,289	95,484	96,773
Under free permits	286	1,075	1,311
By leaseholders of forests	1,051	823	1,874
Total ...	42,831	98,529	140,360
Total for 1886-87 ...	45,067	52,751	97,818
Increase or decrease in 1887-88 ...	2,736	+ 45,778	+ 43,042

12. In the Tenasserim circle the quantity of teak timber extracted was 10,556 tons, or 4,123 tons less than in 1886-87, when much neaped timber of previous year came down, but still 2,299 tons more than was extracted in 1885-86. Less timber of other kinds also was worked out by Government contractors, but partly owing to a rise in the price of teak towards the close of the year there was an increase in the quantity of timber of other kinds extracted by traders under permits. In the Pegu circle 30,700 tons of teak were worked out, or 1,657 tons more than in 1886-87, but the most remarkable feature was the large quantity of timber of the unreserved kinds, extracted by purchasers, namely 80,308 tons, or 47,521 tons more than in 1886-87. This was to some extent due to the demand for sleepers for the Toungoo-Mandalay Railway and for Bengal.

REVENUE.

13. The gross forest revenue of the year amounted to Rs. 22,18,897, or Rs. 2,20,230 more than that of 1886-87 as shown below :—

		1886-87.	1887-88.	Increase or decrease.
		Rs.	Rs.	
From timber and other produce removed from the forests by Government agency.		15,98,181	16,26,722	+ 38,591
From timber and other produce removed from the forests by consumers or purchasers.	Timber	1,24,753	1,77,239	+ 52,486
	Firewood and charcoal ...	1,001	7,928	+ 6,927
	Bamboos	3,219	4,041	+ 822
	Grazing and fodder grass ...	156	236	+ 80
	Other minor produce ...	1,21,439	1,99,076	+ 77,637
Confiscated, drift, and waif wood		1,05,680	1,30,743	+ 25,064
Duty on foreign timber and other foreign produce		24,519	32,060	+ 7,541
Miscellaneous		24,769	40,850	+ 16,082
	Total ...	19,98,667	22,18,897	+2,20,230

14. In the Tenasserim circle the receipts of the year were considerably better than was expected owing to a sudden rise in the price of teak toward the end of the year. The rise in the price of teak stimulated the demand for other timber of less expensive kinds. The continuance of the high prices for cutch led to a further increase in the revenue from cutch-boiling licenses, which yielded Rs. 1,66,300, or Rs. 54,820 more than in 1886-87 and over three times as much as in 1885-86.

15. The gross expenditure of the year compared with that of 1886-87 was—

	1886-87.	1887-88.
	Rs.	Rs.
(*a*) Conservancy and works	8,02,239	7,61,699
(*b*) Establishment	2,73,591	2,70,995
Total ...	10,75,830	10,32,694

The main cause of the decreased expenditure was the non-arrival at Kado within the year of a quantity of timber that had been expected. In other respects the decrease was due to ordinary and trifling fluctuations under various heads.

The increase in the net surplus obtained by the operations of the Forest Department is satisfactory.

Imports and Exports of Teak.

16. The quantity of teak imported by the river Salween into Tenasserim during the year was 104,683 tons compared with 140,948 tons in 1886-87 and 117,099 tons in 1885-86. The market was depressed throughout the greater portion of the year and only improved sensibly toward its close through there being chartered vessels lying at Moulmein which the charterers were obliged to buy timber to fill up. The ruling prices in the Home and Indian markets were, however, somewhat higher than in the previous year. The imports into the Pegu circle from Upper Burma were 40,500 tons, or 3,100 tons less than in the previous year. The early close of the monsoon and the want of water in the forest creeks may account for this.

The exports of teak from both Moulmein and Rangoon were larger than in the year before; they amounted to—

Year.	From Moulmein.		From Rangoon.		Total.		
	Tons.	Value.	Tons.	Value.	Tons.	Value.	Average value per ton.
		Rs.		Rs.		Rs.	Rs. A.
1886-87 ...	96,600	62,84,972	46,734	34,66,561	143,334	97,01,533	67 11
1887-88 ...	116,507	79,54,812	52,417	36,99,610	168,924	1,16,54,422	69 0

The Conservators' reports do not furnish materials for a satisfactory explanation of the increase in the exports. Apparently the increase in Moulmein was partly due to the fact already noticed that freight had been chartered in advance and the exporters were forced to export the quantity of timber for which freight had been chartered. The general increase was also partly due to the insufficiency of the stocks of teak held in Europe and partly to intermittent rises in the price of teak in the Home and Indian markets. The exports of teak from Bangkok are understood to be increasing. But the actual quantity exported from Bangkok as yet is very small in comparison with the exports from Rangoon and Moulmein.

17. The Chief Commissioner acknowledges the ability and zeal with which the Conservators, Colonel Seaton and Mr. Popert, administered their circles during the year under review. He has read with pleasure the commendation recorded by the Conservators of the officers serving under them.

By order of the Chief Commissioner,

H. THIRKELL WHITE,

Officiating Chief Secretary.

REPORT

ON

FOREST ADMINISTRATION

IN

THE TENASSERIM CIRCLE

For the year 1887-88,

BY

Colonel W. J. SEATON, Conservator of Forests.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

DURING the year the Ngawunchaung reserve, of an approximate area of 300 square miles, in the Mergui district, was sanctioned, whereby the total area of reserved forests was increased to 1,793 square miles.

Increase to area of reserved forests.

2. The boundaries of the proposed Martaban reserve, with certain alterations reducing the area to 13 square miles, were again notified under section 6 of the Forest Act, Colonel Pemberton, Deputy Commissioner, Amherst district, being appointed Forest Settlement Officer, and Mr. A. Weston, Deputy Conservator, the Forest Officer to assist in the inquiry.

Forest settlement work. Proposals for additional reserves.

Proposals for the reservation of the Upper Kyakatchaung forest, of an approximate area of 23 square miles, in the West Salween division, were submitted on the 11th November 1887, and resulted in the proposed reserve being notified under section 6 of the Forest Act in Revenue Department No. 28, dated the 28th March 1888.

Lieutenant F. D. Maxwell, Assistant Commissioner, Kyaikto, was appointed Forest Settlement Officer and Mr. A. Weston the Forest Officer to assist in the inquiry.

With the approval of the Deputy Commissioner, Salween district, proposals were also submitted on the 26th September 1887 for the reservation, in the West Salween division, of the Kyunbinsakan teak tract, 485 acres in extent, on a tributary of the Minnannwè stream, and of the Upper Yunzalin teak tract of 500 acres.

In the East Salween division proposals were forwarded on the 4th January to the Deputy Commissioner, Amherst district, for the reservation of five padauk tracts, aggregating 52 square miles, in the Upper Haungdaraw valley.

2.—Boundaries.

Final demarcation of boundaries of the Ngawun and Yachaung reserves.

3. The final demarcation of the Ngawunchaung reserve, in the Mergui district, was undertaken by Mr. C. Ingram, Sub-Assistant Conservator, and completed between the 17th and the 22nd December, the reserve having to a large extent natural and well-defined boundaries. In the work 66 boundary boards 2′×4″×2″ in size were used and Rs. 63-0-6 expended on boards and nails, and their transport from Tavoy to Mergui and thence to the forests by boat.

The final demarcation of the Yachaung reserve, of 317 square miles, was continued and completed, with the exception of the upper part of the Mintha stream, disturbances in the adjoining Tavoy district having interfered with the prosecution of the work beyond that point.

The work performed in the season comprised the survey of the area contiguous to the taungya-grounds near the Palan chaung, and selection and demarcation of a boundary to the Hangan watershed range, the most important and difficult section of the whole work, which occupied Mr. M. H. Ferrars, the Divisional Officer, from the 20th January to the 12th February.

Altogether 189 boundary boards 2′×4″×2″ were affixed at a cost of Rs. 72 for elephant hire, Rs. 37 for coolies, and Rs. 15 for guide hire, or a total of Rs. 124.

Inspection of reserves with reference to the condition of the boundaries.

4. The boundaries of all the reserves in the Attaran division, except the Dali, Pakabo, and Ma-u, were inspected by the Divisional Officer and reported to be in a satisfactory condition.

The inspection of the boundaries of all the reserves in the East Salween division was not completed by the close of the year.

Those of the Gawlè, Baledo, Kyaukket, South Myawadi, West Mèpalè, Mithawe, and Winsaw reserves are reported to be in good order, while those of the Ôṅkaraing reserve were found to be in need of renewal of boundary boards in various places.

In the West Salween division the boundaries of all the reserves are reported to be in a satisfactory condition, except in the case of the Pachaung reserve, contiguous to the north-east frontier on the Salween, of which upwards of 86 boundary boards were found to need renewal. Along the boundaries of the Dagwin and Mèthalauk reserves, likewise near the Salween, only five boards had to be replaced.

The boundaries of the reserves in the South Tenasserim division were inspected and found to be in good order as regards the Mintha reserve, only 10 boards needing to be replaced; but in the case of the Kalcinaung reserve a large number were reported as missing.

There is reason to believe, however, that the difficulty of distinguishing in dense jungle the small zinc plates (12″×4″ in size) with which this reserve was demarcated may have led to the above report and that a further inspection will give different results.

CHAPTER II.

Surveys, Working Plans, and Annual Plans of Operations.

1.—Surveys.

Examination of the outlying teak tracts in the Attaran valley.

5. The examination and rough survey of the outlying teak tracts in the Ataran valley were brought to a close a little subsequent to the end of the official year.

The work of the season embraced the examination of the Pabya and Krunkawun forests in the Winyo valley, and the Po-inda, Mègitôk, and Tiwasku tracts in the Zami valley. With a view to facilitate control a rough survey was prepared by the Ataran Divisional Officer and plotted on scales of 2 inches to the mile, 2 miles to the inch, and 4 miles to the inch, of the taungya-grounds contiguous to the west boundary of the Yachaung reserve.

2.—Working Plans.

Data for working plans.

6. About 30 miles of linear valuation surveys were conducted by Mr. Ingram in the Kalcinaung reserve, at the sources of the Tavoy river, with a view to supplement the data already collected for the preparation of a rough working plan for the pyinkado tracts.

The results of these surveys, together with other data relating to the growth of pyinkado, were however all lost, together with all Mr. Ingram's baggage, in the burning of the Migyaunglaung police station when attacked by dacoits and so courageously defended by that officer and the sergeant on the 8th February.

3.—Annual Plan of Operations.

Annual plan of operations.

7. The proposed plans for the year have been generally worked up to, the area to be planted up under the taungya-cultivation system being maintained, and the extraction of timber from the forests being somewhat in excess of the quantity proposed in the East and West Salween divisions, thereby more than compensating for a short extraction in the Attaran division.

In the girdling operations the number of trees girdled fell short of the proposed quantity by 378.

CHAPTER III.

Protection and Improvement.

General Remarks.

Forest rules.

8. In Revenue Department Notification No. 47 (Forests), dated the 8th September 1887, some important alterations and additions were made to Rules 25, 28, and 30 of the forest rules.

In the first-named rule the limitation to the valley of the Salween of the use of the compulsory License Form No. XIII was removed, while the alterations in Rules 28 and 30 provide a prohibition against a non-registered mark being impressed on any tree or timber, and give power to the Forest Officer, subject to appeal to the Conservator, to cancel the registration of marks which have been found affixed to timber which bears trace of some other property mark or marks having been obliterated, altered, or defaced, or has been used to supermark timber bearing any other property mark or marks.

1.—Establishments.

Cost of establishments.

9. No alteration was made in the scale of permanent establishment of this circle. The amount expended during the year was Rs. 32,607-0-4.

The expenditure on temporary establishments, including keep of elephants, amounted to Rs. 13,973-9-11.

2.—General Protection and Breaches of the Forest Law.

Breaches of forest rules within reserves.

10. A case of trespass was discovered in the Mèkanè reserve, East Salween division, and three taungya-cutters on prosecution in the Myoôk's Court were each fined Rs. 10.

Two cases of breach of Rule 1 of the forest rules in the Mintha reserve, South Tenasserim division, were dealt with in the Myoôk's Court and resulted in the six defendants being each fined Rs. 5.

Breaches of forest rules in unreserved forests.

11. There were 267 cases, implicating 271 persons, dealt with, of which 159 cases were prosecuted in the Judicial Courts and 108 compounded under section 66 of the Forest Act.

Convictions were obtained in 151 cases in which fines to the total amount of Rs. 3,401 were inflicted and nine persons were sentenced to imprisonment.

In the cases compounded a total of Rs. 4,808-8-0 was received as compensation including one sum of Rs. 2,000 in a case of 1,000 trees of unreserved kinds having been felled by the employés of the lessee of a saw-mill in excess of the quantity specified in a trade permit.

Of the 267 cases dealt with 135 were disposed of by Mr. A. Weston, the Deputy Conservator in charge of the Kado division, in his capacity of subordinate Magistrate of the 2nd class, and were for the most part breaches of Rules 17 and 34, relating to timber in transit on the Salween or reported at the Kado revenue station.

In connection with these 135 cases 22 canoes 1 boat-hull, 1 large hand-saw, and 212 teak logs were confiscated.

Amount paid to informers.

12. The sum of Rs. 100 was paid to informers and subordinates of the Police Department by the Kado Divisional Officer acting as a Magistrate, and a total sum of Rs. 381-8-0 was awarded under Rule 44 to informers under the sanction of the Conservator.

3.—Forest Fires.

General results of fire-protection.

13. By reason of the great drought which prevailed, and utter absence of the early monsoon showers, the past season was most unfavourable for fire-protective measures in nearly all the larger reserves under a direct and regular system of protection.

The result was an unprecedented number of fires, the suppression of which taxed to the utmost the energies of the protective establishment, although aided by large gangs of Karen villagers.

On the other hand, in two very large reserved areas, which were only indirectly protected, the measures adopted proved successful, these areas possessing natural fire-resisting boundaries and being, moreover, situated at a great distance from the more populous parts of the country.

Out of a total area of 79,056 acres attempted to be protected by direct measures, as exhibited in Form 51, protection failed over 25,457 acres, thereby showing 53,599 acres as successfully protected, or 68 per cent. of the whole.

In the case of the areas indirectly protected and estimated at 777 square miles the entire area is reported to have escaped fire with the exception of a few acres.

West Salween division. Direct fire-protection.

14. Two fires occurred in the Sinzwè reserve in April, one crossing the south boundary fire-trace during the prevalence of a very high wind which carried the sparks a great distance, and the other penetrating the reserve from the north at a spot where a burning tree fell across the boundary.

The first of these fires spread over 320 acres between the Sinzwè chaung and Papun high road, in which were situated four plantations of 1887, three of 1886, and three of 1885, but did no injury to those of 1887 owing to the ground having been well weeded in the vicinity of the young plants. The trees of 1885 were also not seriously injured, but 13 per cent. of those in the 1886 plantation had their leading shoots killed.

The second fire, which, as well as the first, could only be suppressed by means of counter-fires, spread over about 100 acres between the Kwethe chaung and the sources of the Bawmawlaw chaung, including four old plantations of 1872, in which the trees, being very large, suffered no serious injury.

On the 3rd May a third fire, wilfully caused by some traveller on the Papun high road, burnt over 15 acres to the east of the road before it could be suppressed by the Kamu cooly establishment.

In the (Bilin) Mèwaing reserve an incendiary fire occurred on the 29th April, which was only suppressed late at night after it had spread over 200 acres, chiefly on the west bank of the Mèwaing stream.

Four plantations of 1882 within this area received no injury, the ground being occupied by tabendaing (evergreen), bamboo, and tinwa to such an extent as to suppress all undergrowth.

In the Ônkangyi and Bilakatgyi (Dôndami) reserves the record of the season's work is a record of incendiary fires continually breaking out in different places within them, and their suppression by the guards and villagers.

In the former reserve eight fires took place in March and four in April, the origin of which can only be traced to bad characters and buffalo thieves camping in or passing through the reserve.

The result was that only 310 acres of the entire reserve remained unburnt, the fires extending through and burning all the plantations except those of 1887 and nine of 1886.

An examination of the burnt plantations of 1885 and 1886 showed 4 per cent. of the young trees killed and injured in the former and 18 per cent. in the latter.

In the Bilakatgyi reserve there were three similar fires in March which extended over the southern and middle portions as far as the Kyathaungzeik and Shwepaw fire-traced path, beyond which it only burnt over 3 acres of a plantation of 1885, thereby leaving two-fifths of the entire area of the reserve unburnt. As the fire entered the plantation at night no injury resulted.

In the Tagèlaung reserve, east of the Dôndami river, which contains no plantations, and in which protection is entirely in the hands of villagers, there were four similar fires in the protected portion, which left only about 40 acres unburnt.

In the Wamu reserve near Papun a fire, the origin of which could not be ascertained, broke out on the 26th April on the Kyaukhnyat road, the north boundary. It spread over an area of 20 acres, including two plantations of 1882, but is reported to have done no injury, as it was late in the day, when there was no wind. No fires occurred in the Kahilu reserve.

The total expenditure on fire-protection in the West Salween division is estimated at Rs. 1,473, equivalent to 10·5 pies per acre on the area protected.

East Salween division. Direct fire-protection.

15. In the West Mèpalè reserve, of 40 square miles, in the East Salween division, three fires occurred in March and two in April.

The first of these fires, which spread over 3 square miles, was the result of an accident while the fire-path along a ridge north of the Delaw path was in course of being fired, a hollow tree falling ignited across the fire-path.

The second and third fires broke out within the reserve, and were caused by some unknown trespassers, one between the Nowa-in and Leikpôk chaung, and the other south of the Delaw path.

These fires, which could only be suppressed by counter-fires, spread over 150 acres and 6 square miles respectively.

Of the fires in April the first was accidental during the firing of the new taungya-clearings near the Thidogwè chaung, sparks being carried by the high wind over the trace, and spreading over three plantations of 1883 and one plantation of 1886, or a total area of 40 acres.

The last of the fires, which was on the 15th April, broke out inside a plantation 8 acres in extent of 1884 and burnt through it. It is believed to have been originated by hunters.

The total area of teak plantations burnt in the five fires is 85 acres, embracing three plantations of 1883, three of 1884, eight of 1885, and one of 1886.

The expenditure incurred in the protection of the West Mèpalè reserve was Rs. 1,740-2-11, equivalent to 1 anna 5 pies per acre on the area actually protected.

Attaran division. Direct fire-protection.

16. In the Kyunchaung reserve, of 17 square miles, the northern portion, comprising 5,760 acres outside the plantations, was burnt very late in the season, but a full report of the particulars and origin of the fire or fires has not yet been received, communication with the reserve being interrupted by an outbreak of cholera along the whole extent of the Upper Attaran valley, with the usual result of villages being abandoned and pathways closed.

In the Dali reserve two fires occurred and burnt through a plantation of 1886 and one of 1884, the two plantations aggregating 9 acres.

Fire-protection of large areas by indirect measures.

17. During the year the experiment was made for the first time of protecting from fire by indirect measures the large areas reserved at the sources of the Tavoy and Ya rivers on account of their resources in timber of various kinds other than teak.

In the case of the Kalcinaung reserve, of 460 square miles, in the South Tenasserim division and Tavoy district, the measures adopted embraced the non-issue of hunting licenses, a reduction in the number of fishing licenses, the issue of notices to villagers in the vicinity against the spread of fires from taungyas, and the co-operation of the police guard at Migyaunglaung as far as circumstances would permit in cautioning against the carrying of fire and reporting trespasses when patrolling the paths to the frontier.

The reports to hand show only two fires as having occurred, one over 9 acres towards the south end of the reserve which is believed to have been caused by dacoits, and the other over 54 acres at the sources of the Kawlè chaung within the west boundary. Full particulars of this fire have not been received owing to the presence of dacoits in the reserve.

For the preservation from fire of the Yachaung reserve, of 317 square miles, notices against trespassing and causing fires were served on the few villages in the vicinity, and every endeavour was also made by Mr. Ferrars, the Divisional Officer, as well as by Mr. Weston, during the previous year (when occupied in demarcation work) to make known the rules relating to reserved forests.

The whole of the reserve is reported as having escaped fires throughout the entire season. This result was due not only to the measures adopted, but in a far greater degree to the natural fire-resisting lines formed by the Ya river and its chief tributary, the Minhla chaung, on the west, and evergreen hill ranges to the north, the east, and south-west.

No expenditure was incurred in either of these reserves; but, in order to perfect this method of protection, it will doubtless be advisable to give some rewards in future for assistance when rendered with successful results. The greater portion of the Mintha reserve, of 100 square miles, in the South Tenasserim division, is also believed to have escaped fire, but no definite report is to hand of the precise area.

4.—Grazing.

Grazing.

18. No grazing rights are exercised within any of the reserves, and no revenue was realized as grazing dues.

The concession granted to certain villages in the vicinity of the Mèkanè reserve, East Salween division, to graze elephants within that reserve was not taken advantage of to any extent, most of the elephants having been kept on the Siamese side of the frontier.

5.—Natural Reproduction.

No measures undertaken on a large scale.

19. The department was not in a position to undertake on a large scale any direct measures to assist or stimulate natural reproduction, a work which requires careful direction and supervision.

In the East Salween division the Divisional Officer superintended the girdling of 75 taukyan and eight trees of other kinds in the South Myawadi reserve which were suppressing young teak trees.

6.—Artificial Reproduction.

Taungya teak plantations.

20. The area brought under cultivation during the year is 799 acres, or 56 acres in excess of the total area of the previous year.

The results were as follows :—

	Well stocked. Acres.	Indifferently stocked. Acres.
West Salween division	... 342	295
East Salween division	... 131	...
Attaran division	... 28	3
Total	... 501	298

Results of planting in West Salween division.

21. In the West Salween division the area cultivated was 637 acres, or 165 acres in excess of the previous year's area; but the results, as noted above, show as much as 295 acres as indifferently stocked, in which countings gave less than 250 plants per acre. This was due, in the first instance, to the delay in the receipt and sowing of the seed in the Dôndami and Kahilu reserves, consequent on the interruption in the transport of the seed caused by a severe outbreak of cholera in the Lower Dôndami valley.

Later on the disease spread into the Upper Dôndami forests and occasioned such a panic that a large number of the taungya-plantations were not weeded for several weeks, the cultivators not venturing to approach the locality owing to numerous casualties from cholera within the reserves.

In the Sinzwè and Mèwaing (Bilin) reserves results were very satisfactory, there being only 8 per cent. of the total area indifferently stocked, while on the remainder there were from 266 to 745 plants per acre, or an average of 434 plants per acre in the Sinzwè and 477 plants per acre in the Mèwaing reserve.

Results of planting in the East Salween and Attaran divisions.

22. In the East Salween division good results were obtained over the whole area planted, the number of plants per acre varying from 262 to 633, being on an average 502 per acre.

To facilitate weeding and subsequent control the plantations in the Attaran division were, by way of experiment, formed on the plan of sowing at 1 foot distances in rows 36 feet apart.

In the Kyunchaung reserve the results gave an average of 508 plants per acre, and in the Dali reserve as high as 625 plants per acre.

Total area cultivated with teak up to date.

23. As exhibited in Statement 52 appended the total area planted with teak up to date, inclusive of 23 acres of former regular plantations (not intended to be extended), amounts to 3,839 acres.

Expenditure on planting.

24. The total expenditure incurred on the area planted during the year, inclusive of such taxes as were paid of the cultivators, amounted to Rs. 3,007, equivalent to an average of Rs. 3-12-3 per acre.

7.—Cutting of Creepers, Weeding, &c.

Weeding.

25. In the West Salween division 1,010 acres of plantations of 1884, 1885, and 1886 were weeded at a cost of Rs. 1,172.

Owing to the prevalence of cholera in the Dôndami reserves great interruptions took place in the work, thereby delaying its completion in the Bilakatgyi reserve till the middle of October.

The work was performed chiefly by the Kamu cooly establishment and, allowing for two clearings of the plantations of 1886, the expenditure incurred is equivalent to Rs. 0-12-7 per acre.

Similar plantations, aggregating 509 acres in area, were weeded with Shan cooly labour in the East Salween division at a cost of Rs. 577-1-3, or Rs. 1-2-2 per acre, and 195 acres in the Attaran division at a cost of Rs. 100-10-0, or about Rs. 0-8-3 per acre.

The small expenditure in the latter case is reported as due to the configuration of the ground affording greater facilities to the coolies; but doubtless the soil and the particular description of vegetation on the ground, as well as the Karen labour which was employed, may also account for it.

8.—*Experiments with Exotics and other Trees.*

Cultivation of *Para* India-rubber (*Hevea Brasiliensis*) near Mergui.

26. No casualties occurred among the large *hevea* trees, which are 50 in number, and not 49 as was incorrectly reported at the close of the previous year.

During the year 2,802 plants from the nursery were successfully set out in the main plantation, and 8,430 seedlings raised from seed obtained from the large trees, thereby increasing the stock of seedlings in the nurseries, after allowing for some casualties, to a total of 12,039 at the close of the year.

An area of about 4 acres of tree forest was also partly cleared before the close of the year for the reception of a large number of *hevea* transplants.

A small supply of seed was received from the Royal Botanical Gardens, Ceylon, but in a bad condition and the entire quantity failed.

Cultivation of *Castilloa elastica* in the plantation near Mergui.

27. Of the 86 plants on hand at the beginning of the year 17 died from injuries caused by the attacks of white-ants and deer. The two older trees of 1879 and four trees of 1884 continue to do well.

Cultivation of ceara (*Manihot glaziovii*).

28. Fifty-three additional casualties from the attacks of white-ants took place among the ceara trees, the propagation of which has been discontinued since 1885. The number on hand at the close of the year was 363.

Cultivation of *Ficus macrophylla* in Mergui plantation.

29. Of the 99 plants on hand 14 died during the year by the rotting of the roots, but 15 cuttings were successfully put out, thereby raising the number of plants to 100 at the close of the year.

Cultivation of mahogany.

30. Casualties took place among the mahogany and rain trees, reducing their number to three and 41 respectively.

Cultivation of other species at the Mergui plantation.

31. No casualties were reported among the other species under cultivation, which are represented by 230 kyekpaung, 434 Manilla hemp (*Musa textilis*), 57 akyaw (*Aquillaria agalochum*), and 80 talaingsôk.

Experimental cultivation undertaken with the provincial grant.

32. The Liberian coffee trees on the area assigned to experiments undertaken with the provincial grant continued to thrive throughout the year and yielded a crop of 109 viss of bean coffee, 20 viss of which were sold within the year, realizing Rs. 2-4-0 per viss.

By reason of 12 casualties during the year the total number of trees and seedlings on hand are now reported at 2,617.

Further casualties took place among the Arabian coffee trees, thereby reducing the number from 734 to 669. They continue weak and sickly in appearance. Twenty plants were also given away.

One hundred and twenty-seven cocoa seedlings were transplanted from nurseries, thereby increasing the number of plants to 141, but of these 77 were destroyed by white-ants, which made a total of 64 plants on hand at the close of the year.

From eight pods collected 175 additional seedlings were raised, but of these a few have since died.

The number of vanilla plants on hand was increased by slips from two to 284, all of which are flourishing.

The tea plants have been reduced by casualties to 172, but no casualties took place among the cardamom plants, of which there are four on hand.

Preparations were made to continue the cultivation of cardamom, two seers of best Mysore seed having been received.

Expenditure on the Mergui plantation.

33. The expenditure on the Forest Department area amounted to Rs. 943-6-0 and on the civil department side to Rs. 880-3-2.

34. There were further casualties from attacks of the borer at Amherst, thereby reducing the number of trees in the plantation to nine, of which only two exhibit any signs of vigour.

Experimental cultivation of mahogany at Amherst and Moulmein.

In the Moulmein Forest Office compound the trees, which are 12 in number, appear to be less subject to injury by insects.

From seed received from the Royal Botanical Gardens, Calcutta, 146 seedlings were raised, of which six were despatched to the Sinzwè reserve, West Salween division.

9.—Communications and Buildings.

35. In the Attaran division Rs. 1,166-10-0 were expended on the construction of a shed for the elephants at the Battery Point timber depôt, Moulmein, exclusive of cost of 32 tons of timber supplied for the work.

Buildings repaired and constructed.

The sum of Rs. 10-4-0 was expended on minor improvements in the Forest Office building, Moulmein.

In the West Salween division a sum of Rs. 160 was spent in taking down the forest bungalow at Papun and removing the available material to the Kyunchaungwa forest station on the Yunzalin.

At a cost of Rs. 61-8-0 a room on the ground floor was added to the Forest bungalow at Kawkareik, the headquarters of the East Salween Divisional Officer.

Rupees 39 was also spent on re-thatching a covered way and affixing screens, and Rs. 49-11-6 in earth-oiling the roof.

Two temporary huts for shelter in the rains were erected in the hills between Kawkareik and Thinganninaung at a cost of Rs. 22.

In the Kado division Rs. 106 were expended in the construction of two temporary guard-houses for the use of the Mezeik establishment on the Salween, and Rs. 13 and Rs. 6 on repairs of the guard-house at Mibôn and the bungalow at Shwegôn, making a total expenditure of Rs. 125.

At the Sinszeik revenue station near Tavoy, in the South Tenasserim division, the guard-house and two Government boats were earth-oiled at a cost of Rs. 5-10-9, and a sum of Rs. 4-6-6 was spent in re-thatching the roof of the boat-shed.

36. The launch *Attaran* performed 94 trips during the year, representing a mileage of 3,218 miles, or 803 hours under steam.

Steam-launch *Attaran* attached to the Kado division.

The working expenses amounted to Rs. 3,765 made up of the following items,—wages of crew, Rs. 1,488; coal, 50 tons, Rs. 1,304-15-0; oil, wood, &c., Rs. 327-13-0; repairs, Rs. 585; and surveyor's fees, Rs. 60.

CHAPTER IV.

YIELD AND WORKING.

1.—Departmental Operations.

37. Teak timber to the following extent was extracted by contractors from the Government forests:—

Extraction of teak timber by Government contractors.

Division.	Logs and pieces	Tons.
Attaran	1,123	893
East Salween ...	10,956	6,990
West Salween ...	5,823	2,602
Kado	184	71
Total ...	18,086	10,556

Compared with the outturn of the previous year, which was abnormally high by reason of large arrivals of neaped timber, there is a considerable decrease in the quantity of teak extracted, but compared with the outturn of 1885-86 the extraction of the year under review exhibits an increase of 2,299 tons.

Extraction of timber of other kinds.

38. The extraction of timber other than teak by Government contractors was as follows:—

Division.	Logs and pieces.	Tons.
Attaran	269	374
East Salween	253	284
West Salween	123	136
South Tenasserim ...	14	15
Total ...	659	759

This shows a decrease of 332 logs, or 190 tons, as compared with the previous year's outturn, which is due chiefly to failures in the deliveries of padauk and ingyin (sâl) timber.

A considerable quantity of the former was neaped in the Winyo river consequent on the early cessation of the rains, while in the case of ingyin the contractors could not find the required number of sound trees of the standard size, a difficulty which is also now experienced by the padauk contractors.

Conversion of timber.

39. In the Attaran division 17 teak yatthits, 14 tons teak scantlings, and 8 tons of pyinma were converted for the new elephant-shed.

In the South Tenasserim division 565 broad-gauge and 52,090 narrow-gauge pyinkado sleepers were converted at Tavoy.

Shipping operations.

40. During the year the following quantities of timber were shipped on account of the Gun-carriage Departments by the Attaran Divisional Officer:—

		Tons.	C. ft.	In.	Pts.
Madras	Padauk ...	39	48	2	4
	Ingyin ...	10	45	4	6
	Pyinma ...	80	31	1	6
Bombay ...	Padauk ...	56	28	6	8

At Tavoy shipments of pyinkado sleepers were made to the following extent:—

Madras	38,090 narrow gauge.
Calcutta	14,000 narrow gauge. 565 broad gauge.

Public sales and disposals at depôt.

41. During the year sales and disposals at depôt were effected to the extent of 9,103 tons teak and of 1,092 tons of timber of other kinds, the details of which are exhibited in Statement 56.

The average prices realized on teak logs fell at the beginning of the year from Rs. 17-12-0 to Rs. 15-14-9 per log, while those on teak pieces rose from Rs. 9 to Rs. 11-10-7, and those on crooks fell from Rs. 3 to Rs. 2-9-8.

Subsequently prices exhibited a steady rise, those of teak logs rising as high as Rs. 32-3-2 per log towards the close of the year. Prices of teak pieces also advanced as high as Rs. 16-9-5 and those on teak crooks rose to Rs. 4-10-7, but later on fell to Rs. 3.

Disposals in the forests and locally.

42. In the Attaran division 50 logs and 36 cubic feet pyinma timber were sold in the forests.

Collection of drift timber.

43. Salving operations on the Salween again resulted in the collection of large quantities of drift teak timber which had been neaped in the foreign Thaungyin forests and on which the property marks had become very indistinct.

There were also larger collections of sea-drift teak timber than during the previous year.

The results of the year in both the Kado and South Tenasserim divisions were as follows :—

		Balance of 1886-87.	Collected in 1887-88.	Returned to claimants.	Sold or disposed of.	Balance at close of the year.
Kado division, Moulmein.	Teak ...	5,136	8,314	5,072	3,101	5,277
	Sea drift teak ...	270	786	57	208	731
	Other wood ...	1	15	...	15	1
South Tenasserim division.	Teak ...	6	2	...	7	1
	Sea drift teak....					
	Other wood ...	9	3	...	6	6

The revenue realized on public sales was Rs. 67,150 and salvage dues Rs. 15,519, making a total of Rs. 82,669.

The expenditure involved in these operations, inclusive of quota of charges for all other expenditure, amounted to Rs. 33,144.

2.—Girdling.

Girdling work.

44. During the year girdling operations were conducted with the following results :—

	In reserved forests.	In unreserved forests.	Total.
East Salween division, Block I. ...	872	69	941
West Salween division, Block IV. ...	...	181	181
Total ...	872	250	1,122

In the East Salween division the full number of I class trees, 1,000, would have been girdled, but Mr. Hauxwell, the Divisional Officer, who personally selected the trees for girdling, concluded to pass over small, isolated teak tracts which the contractors would not be disposed to visit for the sake of only one or two girdled trees.

The time occupied in the work was only 14 days, selection being rendered comparatively easy by the good, natural reproduction in most of the localities visited, and by the teak tracts being well defined and separated from each other by belts of In forest.

As much as 35 per cent. of the stock of mature trees was found to be unsound, whereby selection was virtually limited to the sound trees.

In the West Salween division the work was carried on in tracts outside the Ônkangyi and Tagalaung reserves, respectively west and east of the Dôndami river. They were found to contain fewer I class trees of marketable quality than was anticipated, and hence only 181 trees were girdled out of 500, the estimated number. Further details will be found noted in Appendix D.

3.—Removal of Timber by Purchasers.

Teak timber removed from the forests by leaseholders.

45. During the year the outturn of the leased forests was as follows :—

	Logs.	Pieces.
Mittigeik-Kodugwè, Attaran division. ...	275	356
Megwa and Kyunchaung, Attaran division. ...	485	319
Pandaw, West Salween division. ...	86	3
Total ...	746	678

Timber other than teak removed from leased forests.

46. From the Mittigeik-Kodugwè leased forests was also extracted timber other than teak to the following extent,—thitka 213 logs, measuring 227 tons; pyinma 48 logs, or 33 tons; one ohaw log of 40 cubic feet; and one thingan boat-hull of 40 cubic feet.

Timber from the leased forests on which duty was collected at the revenue station.

47. Duty was collected at the revenue station on 1,846 teak logs and pieces from the leased forests, namely,—

	Full-size logs.	Under-size logs.	Stem-pieces.	Crooks.
Mittigeik-Kodugwè, Attaran division.	... 69	206	856	...
Megwa and Kyunchaung, Attaran division.	... 872	68	819	...
Pandaw, West Salween division.	... 8	...	8	882

In addition to the above-named timber 78 logs of pyinma, 243 of thitka, 51 of thitkado, one ohaw, and one thingan hull were passed at the revenue station on payment of duty.

Timber removed from the forests under trade licenses.

48. During the year 1,559 tons of timber of the reserved kinds and 11,528 tons of timber of the unreserved kinds were removed from the forests, and reported for duty at the different revenue stations. Full particulars of this timber will be found noted in annexed Form 54.

Compared with the figures of the previous year there has been an increase of 108 tons in the extraction of timber of the reserved kinds and 963 tons of the unreserved kinds.

This was due partly to the greater demand for timber of other kinds consequent on the rise in the prices of teak and partly to increased supervision, in the Attaran division, tending to check irregularities and illicit felling, and to insure extraction of timber in conformity with the rules, the number of trade licenses taken out being 187 in excess of the number of the previous year.

There was a slight falling off in the tonnage of both reserved and unreserved timber in the South Tenasserim division as compared with the previous year's extraction.

In the latter case the decrease is accounted for by a considerable quantity of pyinkado timber being on hand among the various sleeper contractors at Tavoy at the close of the previous year and being utilized during the year under review.

Minor forest produce.

49. The amounts collected on collection of wood-oil and other minor forest produce, as well as on manufacture of charcoal, will be found noted in Form 55 appended.

For the first time licenses were issued in the South Tenasserim division for the collection of the bark of ôndôn (*Teranthera laurifolia*) and pyu (*Rhizophora mucronata*) whereby the sum of Rs. 332-8-0 was realized.

It was expected that similar applications would have been received for the collection of cardamoms in the different revenue circles of the Tavoy district; but, owing to the disturbed state of the country towards the close of the year, no applicants came forward.

Free grants.

50. Free grants of timber in accordance with the forest rules were made to the following extent:—

District	Number of logs.													
	Thingan.	Thitka.	Karawè.	Thitkado.	Ingyin.	Pyinma.	Pyinkado.	Ôkkan.	Anhchin.	Anan.	Teak.	Tagu.	Kaso.	Kadut.
Amherst	80	5	5	15	30	326	580	10	10	10	30	...	...	...
Tavoy	4	...	2	...	...	...	15	...	...	...	...	5	...	..
Mergui	4	...	...	2	...	2	...	...	...	...	...	...	2	2
Total ...	88	5	7	17	30	328	595	10	10	10	30	5	2	2

4.—*Summary of Produce removed from the Forests.*

Total outturn.

51. The total outturn of the Tenasserim circle was as follows :—

By whom removed.	Teak.			Timber other than teak.		
	Logs and pieces.	Scantlings and sleepers.	Total.	Logs and pieces.	Scantlings and sleepers.	Total.
By Government agency ...	18,086	...	18,086	659	...	659
By lease-holders	1,424	...	1,424	293	...	293
By purchasers in the forests and locally.	...	...	...	50	1	51
Under trade licenses	...	...	...	13,765	...	13,765
Under free grants	45	...	45	848	...	848
Total ...	19,505	...	19,505	15,615	1	15,616

5.—*Import and Export of Forest Produce.*

Import trade during the year.

52. There was a considerable decrease in the importation of foreign teak by the Salween during the year, the result of the generally low prices which have prevailed in the Moulmein market, and which continued until near the close of the year, when prices were temporarily forced up by reason of shippers having tonnage in harbour for which they had not enough of timber in stock.

Foreign teak imported by the Salween and reported at the Kado revenue station.

53. During the year under review 118,958 teak logs and pieces, having a tonnage of 104,683 tons, were imported and reported at the Kado revenue station.

Particulars regarding the outturn of the several forests and proportion of "full-size" and "under-size" timber are noted in Appendix E.

Decrease in importation.

54. Compared with the previous year's importation the abovementioned quantity shows a decrease of 23,641 "full-size" logs, 11,131 "under-size" logs, and 460 stem-pieces, or a total of 35,232 logs and pieces.

Comparison with the importation of previous years.

55. In Appendix E will be found details of the importation of foreign teak by the Salween for the past five years, and in Appendix H the names of the principal importers and the quantity of timber imported by each.

Foreign timber of other kinds imported by the Salween.

56. Only 11 logs of pyinma and thitkado were imported by the Salween during the year.

Transactions in foreign timber at the Kado revenue station.

57. From Form 56 it will be seen that transactions in foreign timber at the Kado revenue station commenced with an opening balance of 74,250 teak logs and pieces, or 76,030 tons and 65 logs of timber other than teak, and closed with a balance of 40,490 logs, or 32,392 tons.

Registration of hammer-marks.

58. During the year under review, in the Kado division, 161 new hammer-marks were registered at the Rs. 100 rate of fee, 80 marks were transferred at the Rs. 10 rate, 115 time-expired marks were renewed at the Rs. 25 rate, and 329 at Re. 1 each, making a total of 685 marks registered, renewed, and transferred at a cost of Rs. 20,104.

Compared with the transactions of the previous year there is an increase of Rs. 8,176, which is due mainly to the fact that many of the individuals who

work timber to the banks of the main streams in foreign territory have concluded to dispense with agents and to have their own registered marks, and so be in a position to send down their timber to Kado for sale in their own names.

Total quantity of foreign timber imported into Moulmein from the Kado revenue station.

59. The total quantity of foreign teak timber imported into Moulmein from Kado during the past two years and value of same were as follows :—

Years.			Logs.	Tons.	Rs.
1887-88	...	...	158,346	140,903	56,98,297
1886-87	...	...	141,874	128,827	43,86,980
Increase 1887-88	...	...	16,472	12,076	13,11,317

The average market value throughout the year was Rs. 35-15-9 per log, or Rs. 40-7-1 per ton, which gives an increase of Rs. 5-1-0 per log, or Rs. 6-7-1 per ton.

During the last six months of the year prices rose considerably, and at its close logs which sold last year at Rs. 50 to Rs. 55 were purchased at Rs. 65 to Rs. 70 each.

Export trade of teak to Europe.

60. The export of teak to Europe from the port of Moulmein as noted in Appendix F was 15,767 tons, which, although 6,239 tons in excess of the exports of the previous year, is nevertheless considerably below the quantities exported in former years.

Business was only rendered possible by the low rate of exchange and low range of freights.

In April the price of Europe "full-size" mill-cut squares 12″ × 12″ and upwards, averaging 26 feet in length and 40 cubic feet, stood at about Rs. 80 to Rs. 90 per ton, but in December, the chartered tonnage in harbour being in excess of timber in stock, prices were gradually forced up to Rs. 115 per ton.

As the vessels cleared prices fell to Rs. 110 and Rs. 105 per ton.

In the Home market the price of floating cargoes, which was in April about £10-10-0 per ton, rose towards December to £12 for good specifications owing to there being a slight revival in the ship-building trade in the United Kingdom. Subsequently the price fell to £11-5-0 to £11-10-0.

Heavy shipments of planks have been made during the year, and £13 to £14 per ton were readily obtained for fairly assorted parcels.

In "Moulmein planks" especially some fairly good business is reported to have been done.

The British Admiralty has taken large quantities of teak during the year, and the Italian Admiralty two cargoes.

The stocks on hand in the United Kingdom have been much reduced, and were estimated as not exceeding 15,000 tons at the close of the year.

It is therefore expected that present prices will be maintained notwithstanding the threatened heavy exports from Bangkok, which may be 50 per cent. larger than those of the past year.

Export trade of teak timber of Indian markets.

61. During the last part of the year there was an improvement in the Indian markets and local prices ranged in consequence somewhat higher than in the two previous years, Rs. 55 to Rs. 67-8-0 being paid for Indian 1st class squares, Rs. 50 to Rs. 55 for medium quality, and Rs. 40 to Rs. 50 per ton for 2nd class.

Prices also rose for small converted timber, and at the close of the year ranged from Rs. 40 to Rs. 80 per ton according to quality, assortment, and conversion.

The local demand for shingles continued steady at Rs. 15 to Rs. 16 per 1,000.

The large importation into Kado of "under-size" and defective logs enabled the Native firms again to make large shipments to Bombay, where there was a steady sale for this class of wood, but at such low prices that shippers complain of losses. As has been the case of late European firms kept aloof from making many shipments, and this trade is now chiefly in the hands of Native firms.

Prices at Bombay for selected squares were about Rs. 90 to Rs. 105 per ton for averages of a ton and upwards, ordinary sizes only fetching Rs. 70 to Rs. 80 per ton and inferior lots Rs. 55 to Rs. 65 per ton.

At Calcutta also prices rose, especially for small stuff, namely, to Rs. 85 to Rs. 90 per ton of ordinary specifications, and shipments continued steady.

To Madras the shipments have continued to fall off and only very small quantities have been shipped by European firms.

Export trade of other kinds of wood.

62. During the year there was a revival in the demand for tea-boxes for shipment to Calcutta, which was brought about by kanyin, an unreserved wood of inferior quality, being accepted in Calcutta in lieu of thitka, pyinma, and thitya.

The prices obtained were 25 per cent. less than in former years and shippers made scarcely any profit. Competition on the part of Assam in tea-boxes has now almost ceased owing to the cheapness of kanyin tea-boxes.

Shipments of pyinkado sleepers continued during the year from Tavoy, and 14,565 were shipped to Calcutta and 38,090 to Madras *viâ* Rangoon.

Exports of timber from Moulmein.

63. Full details of the exports of timber from Moulmein will be found noted in Appendix F, which shows a total tonnage during the year in the case of teak of 116,507 tons valued at Rs. 79,54,812.

In Appendices J J and J (1) will be found the ruling prices in the Home and Indian markets, the freight per ton, and list of names of principal exporters.

CHAPTER V.

FINANCIAL RESULTS.

Revenue and expenditure.

64. The revenue and expenditure during the year were—

			Rs.
Revenue			5,43,803
Expenditure—			
A.—Conservancy and works ...	Rs. 2,41,154		
B.—Establishments	88,220		3,29,374
Net revenue			2,14,429

Comparison with figures of budget estimate.

65. The revenue was Rs. 1,08,073 in excess of the regular budget estimate on account of an increase in receipts chiefly under I(*a*), timber extracted by Government agency, II(*a*), timber removed from forests by purchasers, and III, confiscated drift and waif timber, as well as on account of a slight increase under IV(*a*), duty on foreign timber, and V(*a*) and (*c*), fines and forfeitures, and other sources.

There was an increase under all other heads except V(*b*), refunds, under which there was a decrease of only Rs. 247.

The large increase under I(*a*) of Rs. 51,766 and III of Rs. 33,800 was due solely to the sudden rise in the price of teak towards the close of the year.

The same cause operated in the case of receipts under II(*a*), Rs. 10,248, as it tended to stimulate the demand for timber of other kinds.

The increase of Rs. 1,506 under IV(*a*), duty on foreign timber, was likewise due to the rise in the price of teak, while that of Rs. 5,142 under V(*a*), fines and forfeitures, was the outcome chiefly of more direct supervision of the work of trade license-holders in the Attaran division, as well as to larger fines realized in the Kado division.

An increase of Rs. 5,730 under V(*c*), Other sources, was the result of the registration of a very large number of new hammer-marks at the Kado station.

66. The expenditure under A fell short of the regular budget estimate by Rs. 33,996, and was mainly due to the non-arrival at depôt within the official year of 1,850 Thaungyin teak logs and a large proportion of padauk, thitka, and ingyin timber, whereby payment under I(*a*) had to be deferred to the extent of Rs. 28,538.

Expenditure

The difference yet to be accounted for is explained by savings under VII(*b*), buildings, and VIII(*d*), plantations, to the extent of Rs. 3,315, and by small amounts under other heads less a small increase under both II, VI(*c*), and a sum of Rs. 1,813 under IX(*c*), which was due to certain contractors' outstandings being charged to profit and loss and larger expenditure on informers than was anticipated.

The expenditure under B was Rs. 4,480 less than the regular budget estimate, consequent on small savings under all heads except I(*c*) and II(*b*), the savings under which amounted respectively to Rs. 1,914 and Rs. 1,000, the former being accounted for by the forest and depôt establishment not being kept up to their full complement throughout the year, and the latter by less mileage being charged for.

67. The outstandings in the contractors' and disburser's ledgers amounted to Rs. 37,767-3-9 at the close of the year.

Outstandings

The amount advanced to contractors and recoverable by work done stood at Rs. 34,610-4-8, the remainder being made up of amounts in the hands of disbursers and small outstandings of previous years in course of recovery.

CHAPTER VI.

General Remarks.

68. Mr. J. C. Murray, Assistant Conservator of Forests, 1st grade, was transferred to the Upper Burma circle on the 20th June 1887 and made over charge of the South Tenasserim division to Colonel Pemberton, the Deputy Commissioner, on the 17th June 1887.

Changes in the controlling establishment

Mr. C. Ingram, Sub-Assistant Conservator, was transferred to this circle from the Pegu circle on the 24th October 1887.

Mr. T. A. Hauxwell, Deputy Conservator, received charge of the South Tenasserim division from the Deputy Commissioner on the 7th July 1887 and continued in charge until relieved by Mr. Ingram on the 24th October 1887, when he reverted to the charge of the East Salween division, the duties in connection with which had devolved during his absence upon Mr. M. H. Ferrars, the Attaran Divisional Officer, namely, from the 28th June to the 31st October 1887.

Mr. C. W. Palmer, Deputy Conservator, who proceeded on furlough on the 5th September 1886, was on his return to the province posted to the Upper Burma circle.

Mr. T. A. Hauxwell was confirmed in the 3rd grade of Deputy Conservator on the 11th September 1887.

69. On returning from Tavoy Mr. Hauxwell was laid up some weeks by an attack of rheumatism, and somewhat later Mr. Weston suffered from a very severe attack of jungle fever.

Health of superior officers.

With these exceptions the health of superior officers continued good throughout the year, although the dry season was characterized by much sickness in the district.

70. In the Attaran division the Zaya forester was dismissed for gross neglect of duty on the 31st March 1888, and a forest guard at the Nantè revenue station discharged for unsatisfactory conduct on the 31st March 1888.

Subordinate forest establishment.

Health of subordinate Forest establishment.

71. Except in one instance in the East Salween division the health of the subordinate Forest establishment has continued good throughout the year.

In the temporary establishment both the mahouts of the East Salween division elephant establishment died, one of cholera and the other of dysentery.

Organization of forest ranges and beats.

72. No changes have taken place in the disposition of the beats and ranges of the Forest establishment.

Elephant establishment.

73. No casualties occurred among the elephants of the department, the total number being five carriage elephants in the East and West Salween divisions and Attaran division, and two dragging elephants and a calf at the Timber Depôt, Moulmein.

From Appendix A it will be seen that the average monthly cost of feed and keep amounted to Rs. 34-10-0 for each animal.

Purchase of elephants for other departments.

74. On account of the topographical forest survey three female carriage elephants were purchased at a cost of Rs. 3,220.

Interchange of seeds, &c.

75. To the Conservator of Forests, Central Provinces, seeds were supplied of the following kinds of rattan,—(1) kyaneka, (2) kyaneban, (3) khabaungkyane, (4) yenata. A small supply of seeds of *Hevea braziliensis* was received from the Royal Botanical Gardens, Ceylon.

Tours of the Conservator.

76. During the year the Dôndami reserves, the Sinzwè, Kahilu, Wamu reserves on the Yunzalin, the Pachaung reserve near the Karenni frontier, and the Pakabo reserve in the Attaran division were inspected by the Conservator.

The forests on the Ya chaung in the Haungdaraw valley, the Upper Dali forests, Megitôk and Thellaya forests on the Zami branch of the Attaran river, and the Pabya and Krunkawun forests on the Winyo river were also visited by the Conservator.

The several divisional and subdivisional offices at Moulmein, Kado, Tavoy, and Mergui were also inspected.

Services of officers and subordinates

77. All the controlling officers worked well and to the satisfaction of the Conservator.

The executive staff also generally worked well, while Shwe Ka, Forest Ranger in the West Salween division, and Maung Pyu, Forest Ranger in the East Salween division, gave special satisfaction in the discharge of their duties. The duties of the Conservator's office were satisfactorily performed and in a manner very creditable to Mr. J. Johnson, who was promoted to Superintendent and relieved Mr. B. B. Johnson on the 1st August 1887.

MOULMEIN:
The 12th June 1888.

W. J. SEATON, COLONEL,
Conservator of Forests, Tenasserim Circle.

REPORT

ON

FOREST ADMINISTRATION

IN

THE PEGU CIRCLE

For the year 1887-88,

BY

E. P. POPERT, Esq., Conservator of Forests.

CHAPTER I.

AREA AND BOUNDARIES.

1.—Area.

Addition to area of reserves.

1. In return for 3·09 square miles of the Thitpyat and Kyunchaung reserves, deforested to provide sites for railway stations and extension of cultivation, about 8 square miles have been sanctioned as reserved forests to the east of the railway line in the Rangoon division.

New proposals for reserves.

2. During the year proposals were submitted by the Toungoo Divisional Officer for the reservation of two tracts for fuel and fodder reserves near the line of railway, namely :—

	Approximate area. Square miles.
Nyaungkyidauk	7·5
Kanyutkwin	20·0
Total ...	27·5

Proposals made in 1885-86 still unsettled.

3. At the close of 1885-86 proposals had been submitted for the reservation of 547 square miles of forest in the different divisions. These proposals are still pending. Civil officers could not be detached from their regular duties to undertake forest settlement.

4. The area of the Nyanlè reserve, in the Tharrawaddy division, has been found by the topographical survey to be 7 instead of 9 square miles.

Total area of sanctioned reserves at close of year.

5. The total area of sanctioned reserves at the close of the year amounted to 3,298 square miles, or an increase of 3 square miles.

2.—Boundaries.

Report on demarcation (asked for in Government of India Resolution on previous year's report).

6. All the sanctioned reserves in this circle have been demarcated. Previous to 1875 boundaries of reserves when not following the course of main rivers were defined by blazing and hammer-marking all the trees along the line of boundary, and by nailing up boards numbered and inscribed အမိုးရ။ (Government) at intervals of about 200 yards

Since 1875, in place of or often in addition to the boards, posts bearing serial numbers have been set up on mounds of earth or heaps of stones. The present condition of the boundaries is as follows. In the Prome division they are reported all clearly defined and Rs. 129-5-0 were spent during the year in re-blazing trees and re-erecting posts. Owing to press of work and the unsettled state of the district the renewals of or repairs to the boundary marks were not completed in the Tharrawaddy division at the close of the year; the work was well in hand and Rs. 42 had been expended. With the exception of the Ôkkan reserve all the boundaries in the Rangoon division were examined and repaired at a cost of Rs. 257. The boundary marks of some of the reserves in the Toungoo division require renewal. The work has had to be partially postponed until next season. The demarcation originally was badly and carelessly done by a Sub-Assistant Conservator and a ranger, both of whom were afterwards removed from the service. The reserves in the Shwegyin division are all demarcated. Additional boards and tree-blazing are still necessary in one or two places where the railway intersects the reserves.

CHAPTER II.

1.—Surveys.

Forest survey.

7. The following has been extracted from a report furnished by the Deputy Superintendent in charge of the party. The season's outturn amounts to 199·25 square miles of reserved forests, 46·31 square miles of Karen areas surveyed on the 4-inch scale, and 93·10 of unreserved forests surveyed on the 2-inch scale. The approximate cost of 4-inch survey per square mile amounts to Rs. 309-14-0 and of the 2-inch survey to Rs. 84-5-0. The total estimated expenditure to the end of October next amounts to Rs. 83,772. The work was not hampered in any way by dacoits; occasionally difficulty was found in obtaining water and in some places guides as the Karens had cleared out.

2.—Working Plans.

Field work of Working Plans division.

8. The examination of the Minhla, Myaung, Gamôn, and Taung reserves was completed, and the Baubin reserve commenced by the Working Plans party during the season. In all about 150 square miles of forest have been explored and the necessary data collected for the elaboration of working plans. The expenditure incurred amounts to Rs. 12,300, or about Rs. 82 per mile, a considerable reduction on the cost of former years.

3.—Annual Plan of Operations.

Annual plans adhered to.

9. Throughout the circle the proposed plans of operations have been well adhered to and carried out. The outturn of timber from the Prome division was short in consequence of scanty rainfall.

CHAPTER III.

Protection and Improvement.

1.—Establishments.

Weakness of controlling staff.

10. The staff of controlling officers has been so reduced during the year as to render impossible the exercise of the necessary supervision over all works, notably fire-protection and the clearing of the older taungya plantations. Three officers were transferred to Upper Burma, and Mr. Mercer, Assistant Conservator of Forests, who only arrived the previous cold season from Europe, had to be transferred in June to the North-Western Provinces as his health would not stand the exposure here. Altogether of a staff of 15 officers only the services of nine were available for the greater part of the year.

Scale of subordinate establishment unchanged.

11. The scale of the permanent subordinate establishment was unchanged during the year, and its cost, as well as that of the temporary establishment, is shown in the following statement :—

Division.	1886-87.		1887-88.			
	Cost of permanent establishment.	Cost of temporary establishment.	Sanctioned permanent establishment.	Sanctioned temporary establishment.	Actual cost of permanent establishment.	Actual cost of temporary establishment.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Prome ...	7,081	1,842	8,817	2,882	7,724	2,410
Tharrawaddy ...	13,777	2,848	16,638	5,760	14,518	4,321
Rangoon ...	10,663	2,878	10,950	4,560	11,018	3,544
Toungoo ...	7,404	1,293	9,778	1,992	9,252	1,795
Shwegyin ...	4,877	1,054	5,157	2,064	5,602	1,173
Western ...	4,979	1,926	5,172	2,556	4,642	2,981
Agency ...	26,341	5,368	27,210	13,956	27,563	6,877
Total ...	75,122	16,709	83,722	33,720	78,651	23,101

Increased subordinate establishment necessary.

12. To carry out the provisions of the working plans for the different reserves in the Tharrawaddy division it is necessary that the permanent forest establishment be increased. Additional establishment is required in the Toungoo division, which at present has but two rangers ; and, further, both office and forest establishment will be required for the Thayetmyo division, if sanctioned, as it includes a very considerable tract of country formerly Upper Burma.

2.—General Protection and Breaches of Forest Law.

Prosecution for breaches of forest law.

13. For breaches of forest law, theft of timber, &c., 129 cases, involving 201 persons, were prosecuted before Magistrates, and convictions obtained in 117 cases concerning 164 men. Only one of these cases calls for particular notice. In the Tharrawaddy division a man obtained a license to boil cutch in the Chaungzauk reserve ; he sublet this license with the proviso that all the manufactured cutch was to be made over to him at a rate somewhat lower than the ruling market rate. It was discovered his men had felled some 2,744 undersized trees. He was prosecuted before the District Magistrate under section 26 of the Forest Act, fined Rs. 1,000 with six months' rigorous imprisonment. This sentence was confirmed upon appeal by the Commissioner of Pegu, but reversed upon revision by the Judicial Commissioner. The case has formed the subject of special correspondence and further comment is here unnecessary.

For boiling cutch without licenses or cutting undersized cutch trees only 35 prosecutions compared with 60 last year were instituted. The improvement is doubtless owing to several offenders having been sent to jail without option of a fine.

The percentage of convictions amounts to over 90 per cent., an improvement of 4 per cent. upon the previous year.

Encroachment upon reserved forests.

14. Three men were prosecuted for extending their fields into the Shwekyundaw reserve, Prome division, and were fined Rs. 10 each. In the Saing reserve, Toungoo division, it was discovered that a villager had cut a taungya without permission, and a similar discovery was made in the Kanni reserve. The men were not prosecuted. In the first case the man was ordered to sow teak seed with his crops, and in the last to sow cutch seed.

Offences compounded by Divisional Officers under section 66.

15. Divisional Officers compounded forest offences committed by 527 persons. The compensation accepted amounted to Rs. 5,628. Rupees 182 were awarded to informers under Rule 44.

3.—Forest Fires.

General result of fire-protection.

16. The year under report has been an unfortunate one for fire-protection. The hot season was unusually protracted and the usual showers of rain which assist very materially the work of protection were wanting this year. In Tharrawaddy bad characters fired several reserves, and the fear inspired by them prevented the watchers carrying out their work efficiently.

The area attempted to be protected was 118,779 acres; of this 34,392 acres were burnt, leaving 84,387 acres protected. The previous year 116,233 acres were fire-traced and 103,449 escaped fire. The cost in 1886-87 was Rs. 10,825 and this year Rs. 10,461, or 1 anna 5 pies per acre attempted and 2 annas per acre protected.

Detail for the Prome division.

17. Twenty acres of the Prome plantation were burnt through. The fire was due to sparks being blown across the trace from a jungle fire outside. It was extinguished with the aid of the neighbouring villagers. A small patch of 4 acres was traversed by fire in the Chaungzauk reserve. The attempt to protect the Tindaw reserve had to be abandoned this year; the villagers refused to undertake the work. The cost of protection altogether amounted to Rs. 891, or 2 annas 6 pies per acre attempted and protected.

Tharrawaddy division fire-protection.

18. Three fires, covering 58 acres, occurred in Bwet reserve; two were the result of negligence on the part of the fire-trace contractor, who was fined, and the third was the work of incendiaries, as four places were fired at the same time. Eight fires, aggregating 1,500 acres, took place in Gwedaukkwin reserve. The first was due to the fire-trace contractor's, neglect, and the others all started well inside the reserve and were evidently wilful. Four fires, spreading over 1,090 acres, occurred in the Kyaukkyitaung reserve; two were the result of negligence on the part of the contractor, watchers, and forest guard; the latter was afterwards removed from the service and the contractor fined. The other two broke out inside the fire-trace and are believed to have been lighted maliciously. Three fires, covering 970 acres, occurred in Nyanlè reserve; one was caused by a high wind carrying sparks from the taungyas which were being fired into the other part of the reserve, and although every endeavour was made spread over about 800 acres before it was extinguished. The origin of the two other fires is unknown. Two small fires, aggregating 17 acres, took place in the Bawbin reserve; one was caused by a man smoking-out bees from a hollow tree, and the second is ascribed to carelessness of some bamboo-cutters. One hundred and eighteen acres of the Kangyi reserve were traversed by two fires; one occurred before the fire-trace was completed, and the other was caused by sparks from kaing grass which was being burnt by the watchers.

One fire, supposed to have spread from the camp-fires of bamboo-cutters, occurred in the Myaung block. No damage was done. The forest burnt was 'indaing.' Three fires broke out in the Minhla-Môkka block; the one which burnt through the greater part of the reserve was started by dacoits, who followed it up by burning the forest rest-house and several other houses at Seywa. Six fires occurred in the Môkka-Bilin block, spreading over 14,383 acres; three were traced to dacoits, and the watchers and forest guards were so intimidated that evidently little or no attempt was made to extinguish the fires. Two fires broke out inside the fire-trace in the Thônzè-Kôn Bilin block and ran over 1,145 acres; cause unknown. The expenditure amounted to Rs. 5,282-13-4, or 1 anna 11 pies per acre attempted and 3 annas 11 pies per acre protected.

Rangoon division fire-protection.

19. The protection of the Magayi reserve and Kyetpyugan plantations was successful. A fire occurred in the Dawè block; Zamayi, and burnt over 11,520 acres. The Karens lost their heads and devoted their whole attention to prevent the ingress of the fire into the plantations, in which they succeeded, but made no attempt to extinguish the fire, which died out. The cost of fire-protection amounted to Rs.

2,765, or 1 anna 3 pies per acre attempted and 1 anna 10 pies per acre protected.

Fire-protection, Toungoo division.

20. Five hundred acres of the Pyunchaung reserve were burnt. It started inside the fire-trace and a "da" was found near the spot; the owner could not be traced. Two fires occurred in the Saing-Yanè reserve, spreading over about 220 acres, origin unknown; probably carelessness on the part of a man carting paddy along a road through the reserve. A fire, covering about 200 acres, took place in the East Swa reserve supposed to have been started by bad characters grazing stolen cattle in the reserve. The teak yas in the Kabaung and Bôndaung, as well as the dibbling in the latter, were burnt through. The Karens failed to carry out their promise to protect the plantations. The expenditure amounted to Rs. 1,522, or 9 pies per acre attempted and 9 pies protected.

Comparison of fires with previous year.

21. The statement below shows the areas of plantations and of forest burnt over compared with the previous year:—

Reserve.	Area fire-traced, in acres.		Area in acres over which fires spread.			
			1886-87.	1887-88.		
	1886-87.	1887-88.	Total.	Total.	Of forest.	Of plantations, sowings, &c.
Prome plantation	75	75	75	20	...	20
Chaungzauk	5,735	5,735	1,600	4	3	1
Gwedaukkwin	2,000	2,000	2,000	1,500	1,290	210
Kyaukkyitaung	2,000	2,000	154	1,090	1,028	62
Bwet	2,886	2,886	...	58	28	30
Nyanlè	5,340	4,518	3,740	970	870	100
Kangyi	4,896	4,914	37	118	82	36
Bawbin	814	1,500	2	17	8	9
Gwedauksan	233	285	24	...	...	...
Myaung	1,860	1,860	...	100	100	...
Minhla	2,800	2,800	305	1,885	1,626	259
Môkka	10,689	10,689	3,783	9,459	6,884	2,575
Kadin Bilin	7,326	7,326		5,464	4,828	636
Kôn Bilin	1,325	1,325	...	1,135	883	252
Thônzè	1,295	1,295	...	10	10	...
Kyetpyugan	940	940	188	...	...	...
Zamayi	30,769	31,105	..	11,520	11,520	...
Pyunchaung	3,440	3,440	100	500	500	...
Saing-Yanè	5,760	12,800	...	220	220	...
East Swa	17,280	17,280	...	200	190	10
Bôndaung	17	17	...	17	...	17
Kabaung	105	105	...	105	...	105
Total ...	105,888	114,895	12,008	34,392	30,070	4,322

4.—Grazing.

Grazing fees realized.

22. Rupees 236 were realized on account of grazing 618 head of cattle inside reserves; and right-holders grazed 1,935 animals inside reserves free of charge.

5 and 6.—Reproduction by Natural and Artificial means.

Increase to regular plantations.

23. The area of regular plantations in the Magayi reserve, Rangoon division, was increased by 17 acres. The cost amounted to Rs. 211-6-6, or Rs. 12-7-0 per acre, and the number of plants alive at the close of the season was 17,644, or 1,038 per acre. Two acres were planted up at Kyetpyugan, costing Rs. 13-4-6 per acre, with an average of 994 plants. At Kyetpyugan there is no more suitable land available for the extension of the plantations.

24. Only 6·5 acres were planted by taungya cultivators in the Chaungzauk reserve, Prome division; these cost per acre Rs. 10-7-5 and contained 1,000 plants, a great improvement upon last year. They were intended to be a mixture of teak with cutch; but very few seedlings of the latter have come up and practically only teak remains.

Prome division teak taungyas.

25. In the Tharrawaddy division 824 acres of taungyas were planted with teak in nine reserves. The cost, including taxes and teak-seed, was Rs. 10,799, or Rs. 13-1-8 per acre, and the average number of plants amounted to 1,067 per acre. Details will be found in Form 52A.

Teak taungyas in the Tharrawaddy division.

26. The 20 acres planted up in the Kangyi reserve by Sub-Assistant Maung Kale and which were omitted from last year's returns as the result was doubtful (paragraph 20 of last year's report) were found upon examination last cold season to contain a sufficient number of healthy teak seedlings, and have been added to the area of taungya plantations.

27. In the Zamayi reserve, Rangoon division, 115 acres were planted up at a cost of Rs. 1,307-13-2, or Rs. 11-5-11 per acre.

Rangoon division teak taungyas.

The 64 acres cultivated by Myat Ne and Pauktu Tes contain 607 seedlings per acre, unfortunately many of these are very small and will require careful and repeated clearing to prevent their being choked by the surrounding rank growth.

The taungyas of Pan Tha and Au Tau Tes, 51 acres, are very good, growth of seedlings, vigorous and healthy; the average number of seedlings per acre amounts to 1,094.

28. In the Toungoo division 32 acres were planted up with teak in the Yanè and East Swa reserves. The cost was Rs. 187-12-0, or Rs. 5-13-10 per acre, with an average number of 450 plants. The sites chosen were low and liable to inundation, which accounts for the decreased average.

Toungoo division teak taungyas.

29. The area of taungyas planted up in the whole circle during the year amounts to approximately 977·5 acres, costing Rs. 12,362-9-2, or Rs. 12-10-4 per acre, with an average number of 1,017 seedlings. This average is much in excess of the previous year's and accounts for the average increased cost per acre.

Total area of teak taungyas in the circle.

30. In the Tharrawaddy division myinwa bamboo has flowered largely, and in the Thônzè and Kôn Bilin forests there has been a general flowering of tinwa and waya. As soon as the dead bamboos will burn measures will be taken to sow up as much as possible of the area with teak.

Flowering of bamboos in the Tharrawaddy division.

7.—Cutting Creepers, Weeding, and Thinning.

31. The Prome plantation was again thinned this year; the work was conducted under the supervision of the Divisional Officer and cost Rs. 395-4-0. The poles cut realized Rs. 487-8-0, or a profit of Rs. 92-4-0 on the operation.

Prome plantation thinned.

32. In cutting creepers, &c., over 1,230 acres of Magayi plantations Rs. 156-12-10 were expended, and clearing 81 acres of 1885 and 1886 plantations involved an outlay of Rs. 96-11-1.

Creeper-cutting and weeding, Magayi plantations.

33. Three hundred and fifty-six acres of Kyetpyugan plantations were cleared of creepers at a cost of Rs. 274-11-3, and the plantations of the three previous years, amounting to 80·5 acres, were weeded and blanks filled in at a cost of Rs. 1,004-4-2, or Rs. 12-7-7 per acre. This is a high rate, but the Divisional Officer remarks the seedlings in these plantations are small and were completly overgrown with kaing grass, and being on the edge of the block and

Clearing and creeper-cutting in Kyetpyugan plantations.

outside the broad fire-trace are very much more exposed to the danger of fire from outside. The clearing has been thorough.

Kanni plantations cleared of creepers.

34. The Kanni plantations, Toungoo division, 65 acres in extent, were cleared of creepers at a cost of Rs. 20, or Rs. 0-4-11 per acre.

Removal of soft woods and creepers in taungya plantations.

35. The work of clearing old taungya plantations of creepers and soft woods has been well attended to, and in the Prome division 741 acres, Tharrawaddy division 3,858 acres, and Toungoo division 390 acres were cleared at a total cost of Rs. 9,249, or Rs. 1-13-8 per acre. Details in Appendix N.

In the Rangoon division upon similar work an outlay of Rs. 150-8-0 was incurred.

Sowings in Nyanlè and Bôndaung cleared.

36. About 500 acres of the teak sowings in flowered bamboo forest in Nyanlè reserve were also cleared of bamboos and soft woods at a cost of Rs. 593-10-3. The teak dibblings in Bondaung of 1886-87, 10 acres in extent, were also weeded, costing Rs. 6-8-0.

37. Generally this work of clearing old taungyas, which requires the exercise of care, judgment, and intelligence, has been fairly well carried out by the Native subordinates.

Works of improvement by girdling party.

38. The girdling parties in the Thônzè, Kôn Bilin, Kadin Bilin, and Môkka forests cut creepers on teak trees wherever met with, and suppressed trees were set free by girdling or felling trees of worthless species. Rupees 33 were spent upon this account.

8.—*Experiments and Exotics.*

39. About half an acre was sown with cutch seed in the Pyunchaung reserve by the forest guard at a cost of Rs. 2 with indifferent success.

Mahogany.

40. Only 64 plants are alive in the Chaungzauk reserve and at Kadinngasin, Prome division, although 32 fresh plants were put out. They do not thrive here. The total number of plants in the Tharrawaddy garden has decreased to 590; these appear healthy, but in common with other exotics and even indigenous trees remain stunted and branch out close to the ground. Fifty-two plants remain of the 56 at Palôn and are reported thriving; 17 plants are alive in the Saing-Yanè reserve, but make no progress; only five stunted specimens remain at Pyunchaung.

Ficus elastica and Mysuriensis.

No additions were made at Magayi. The plants are doing well, but all attempts to re-produce from cuttings have failed.

Ceara.

Five hundred and fifty plants remain in the Tharrawaddy garden and 90 at Magayi; the others succumbed to the heat last hot season.

Vanilla.

The vanillerie at Magayi now contains 1,310 flourishing plants: 215 flowered during the year, producing 70 pods. These appear, however, to possess little or no scent.

Morus multicaulis.

The villagers now will have nothing to do with this. They state it attracts rats, which destroy the roots wholesale, while the common mulberry is left untouched.

Thandaung.

41. Nothing was done to the cinchona. An attempt was made to grow fir seedlings in the proposed station, but all died. The tea and coffee were weeded. Total expenditure Rs. 69-14-6.

Tharrawaddy forest garden.

42. The following is a list of the exotics growing in the garden. All appear healthy except *Pomaderris elliptica* and *Tristania conferta*. None of the plants really do well; the soil is too uncongenial. The ceara is very liable to be blown down when about 20

feet high, and is found to be decayed just above the roots and the dead wood to be full of white-ants, probably an effect not the cause of death :—

Eucalyptus citriodora	2
Pomaderris elliptica	1
Tristania conferta	4
Ficus elastica	21
Vanilla	10
Morus multicaulis, about	20
Pithecolobium Saman, about	250
Mahogany, about	590
Divi-divi, about	860
Ceara, about	550

It is worth noting that the young shoots of the pithecolobium have become a favourite vegetable for curry with the Burmese.

The total expenditure incurred in keeping the garden in order, planting, &c., amounted to Rs. 1,764-11-9.

9.—Communications and Buildings.

(*a*) *Roads, Bridges, Streams.*

Clearing streams, &c.

43. In the Tharrawaddy division small obstructions in the Gamôn, Bilin and Udo streams were removed at a cost of Rs. 66-9-6, closing two escapes in the Taungnyo river cost Rs. 330, and a canal about a mile long was dug in the old bed of Shwelè, where it had silted up, and a number of escapes were closed. Work not paid for or completed before close of official year. The weir to protect the Kinpadi bridge, Rangoon division, was repaired at a cost of Rs. 21-3-2. Repairs to the main road at the Government timber depôt at Rangoon and to two bridges in the depôt cost Rs. 194-3-0. Blasting operations were commenced in the Kyunwi stream, Kadat reserve, but the work was not finished at the close of the year.

(*b*) *Buildings.*

Expenditure upon bungalows, rest-houses, &c.

44. In repairs to the Prome forest office Rs. 151, Kadinngazin rest-house Rs. 10, and elephant-shed at Prome Rs. 24, altogether Rs. 191, were expended during the year.

In the Tharrawaddy division Rs. 454-12-9 were spent as follows :—

	Rs.	A.	P.
Repairs to Kaunglaungdaing, Seywa, and Kwingyi rest-houses	42	12	9
Tharrawaddy forest office	72	8	9
Tharrawaddy forest bungalow	139	7	8
Paungdè forest bungalow	200	0	0

The Seywa rest-house was burnt down by dacoits.

In the Rangoon division a bungalow and office was erected at Pegu for the Revenue Overseer at a cost of Rs. 1,060, and repairs to the different buildings cost as follows :—

	Rs.	A.	P.
Kinpadi and Palôn bungalow	94	15	2
Pegu forest bungalow	157	4	0
Tawlatè revenue station	78	0	6
Hlègu revenue station	54	0	0

In the Toungoo division the repairs to bungalows and rest-houses, &c., entailed an outlay of Rs. 435-13-6, composed of—

	Rs.	A.	P.
Repairs to forest office	51	14	0
Repairs to bungalow	258	9	6
Pyunchaung rest-house	9	0	0
Depôt guard-house, Toungoo	27	4	0
Elephants' quarters	50	0	0
Padè rest-house	9	2	0
Erection of temporary hut at Gwethè	80	0	0

Rupees 70 were expended in constructing a new depôt-house at Bassein, Western division.

The cost of annual repairs to buildings at the timber depôt, Pazundaung and Botataung revenue stations, Rangoon, amounted to Rs. 974-1-0.

CHAPTER IV.

YIELD AND WORKING.

1.—Departmental Operations.

Departmental extraction of teak.

45. From the different divisions 39,612 teak logs and pieces were worked out by departmental agency, and the outturn, division by division, together with average amount paid for extraction, may be taken from the following statement:—

Division.	Number of logs extracted during the year.	Disposed of locally.	Sent to Rangoon.	Arrived at Rangoon.	Average rate paid to contractor.	Average cubical contents per log.
					Rs. A. P.	C. ft.
Prome	1,644	59	1,592	1,592	10 4 8	42
Tharrawaddy	11,704	6	11,698	11,870	8 14 11	45
Rangoon	5,613	...	5,613	5,868	12 6 10	50
Toungoo	5,192	991	4,251	4,158	19 5 10	55
Shwegyin	888	830	58	58	15 8 0	45
Western	78	78	...	...	15 5 1	48
	24,619	1,464	23,212	23,546	.....	...
Refuse and short logs.						
Prome	74	74	...	...	2 8 10	30
Tharrawaddy	14,919	5,133	...	...	2 10 6	18
Total ...	39,612	6,671	23,212	23,546	.....	...

Over 7,500 logs remained neaped at the close of the season in the various streams, chiefly in the Tharrawaddy and Prome divisions.

Teak from forests formerly held by lessees.

46. From the Malun and Thayet forests 249 logs came out, and 161 were floated to Prome at a cost of Rs. 78-8-0, and the balance, 70 logs, to Rangoon, upon the floating of which Rs. 170-8-6 were expended.

Extraction of woods other than teak

47. To supply the Rangoon Jail 49 logs of petwun were extracted from the Hlaing range, costing Rs. 14 per log; three logs of pyinma were brought out of the Toungoo forests; 308 logs of kanyin (407 tons) were worked out of the Shwegyin forests. The contractor received half of the timber as payment. The Western division worked out for local demands the following:—

	Logs.	Cubic feet.
Pyinkado	842	11,040
Kanyin	239	7,860
Kashit	53	1,948

The contractors were paid at the rate of Rs. 12 per ton for pyinkado and Rs. 10 for kanyin and kashit.

Contractors' outstandings.

48. The outstandings against timber contractors at the close of the year amounted to Rs. 31,606-3-10, distributed as follows:—

	Rs. A. P.
Prome division	3,768 4 0
Tharrawaddy division	23,701 15 10
Western division	3,341 15 9
Agency division	800 0 0

Rangoon, Toungoo, and Shwegyin have no outstandings. The Prome debts are covered by work done and mortgaged elephants. To cover the Tharrawaddy outstandings the work done but not paid for is valued at Rs. 9,400, and the value of the elephants mortgaged represents Rs. 34,100.

The sleeper contractors of the Western division have reduced the amounts due by them from Rs. 8,473 to Rs. 3,341. In all probability Rs. 1,170 will be further recovered, and the balance, as anticipated in last year's report, will have to be written off to profit and loss.

2.—*Removal of Produce by Purchasers.*

(*a*) *Timber.*

Timber extracted from reserve.

49. From the Kôn Bilin reserve one log, 2 tons, tarapi was extracted at Rs. 5 per ton, and from different reserves in the Tharrawaddy division 1,078 cutch trees were sold to boilers for Rs. 2,751. From reserves in the Rangoon division the following unreserved timber was extracted :—

Reserve.	Species.			Revenue.
	Thayet.	In.	Pyinkado.	
				Rs. A. P.
Kyunchaung	800	...	...	1,600 0 0
Thitpyat	...	600	1,000	4,800 0 0
Thabyu	500	5,001	2,000	21,921 0 0
Total ...	1,300	5,601	3,000	28,321 0 0

Reserved woods from unreserved forests.

50. The quantity of reserved woods worked in the different divisions is shown below :—

Division	Teak.	Thingan.	Kanyin.	Pyinma.	Thitkado.	Kashit.	Revenue.
	Tons.	Tons.	Tons.	Tons.	Tons	Tons.	Rs. A P.
Prome ...	566·0	...	..	...	...	...	6,556 7 0
Tharrawaddy ...	219·0	4 5	2 0	9 2	...	...	2,631 0 6
Rangoon ...	15·0	9 5	...	13 0	...	...	350 14 5
Toungoo ...	248·0	63 0	900 0	7 0	...	...	5,366 8 0
Shwegyin ...	63 0	12 4	328 7	72 0	9·6	...	2,058 13 4
Western ...	45·0	1·0	50·0	55 0	2 0	28 0	1,724 1 6
Total ...	1,156 0	90 4	1,280 7	156 2	11 6	28 0	18,687 12 9

The quantity of unreserved woods extracted was considerably in excess of the previous year. The conversion into sleepers for the Toungoo-Mandalay line still continued, and Bengal was also supplied with several thousand sleepers. The quantity in logs was as follows :—

Division.	Dugyis and hlwazas.	Yatthits.	Posts.	Poles.	Revenue.	Remarks
					Rs A. P.	
Prome ...	6,795	20,865	18,578	28,250	27,256 11 10	Chiefly In and thitya.
Tharrawaddy ...	1,991	5,316	93	350	7,326 8 0	
Rangoon ...	1,330	3,094	4,915	...	5,207 3 6	
Toungoo ...	9,617	6,522	1,343	5,559	16,342 8 9	Principally pyinkado.
Shwegyin ...	2,508	1,197	5,161	1,075	5,916 14 0	
Western ...	11,702	8,986	14,260	202,962	28,982 2 1	
Total ...	33,943	45,480	44,350	238,196	91,032 0 2	

Rupees 1,569-15-0 were collected in the Arakan Commissionership during the year.

(*b*) *Minor Forest Produce.*

Minor produce from reserved forests.

51. Minor forest produce extracted from reserves yielded a revenue of Rs. 34,371, the chief item being cutch from the Tharrawaddy reserves.

Division.	Bamboos.	Thatch.	Shaw bark.	Cutch.	Laterite.	Betel-leaves.	Canes.	Wood-oil.	Grazing.	Honey.	Cheroot-leaves.
	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
Prome ...	84	1	19	...	...	...	...	...	...	...	...
Tharrawaddy ...	1,957	85	148	29,511	...	...	...	12	121	27	76
Rangoon ...	1,936	26	101	...	12	83	8	...	115	...	...
Toungoo ...	114	...	34	...	...	...	...	6	...	...	...
Total ...	4,041	62	297	29,511	12	83	8	18	236	27	76

Minor produce from unreserved forests.

52. The cutch revenue again this year shows an enormous increase upon last, the greater part having been collected in the Thayetmyo district Prome, division :—

Division.	Cutch.	Charcoal.	Fuel.	Resin.	Wood-oil and thitsi.	Remarks.
	Rs.	Rs.	Rs.	Rs.	Rs.	
Prome ...	1,43,420	284	18	46	...	
Tharrawaddy ...	21,560	133	4	...	76	
Rangoon ...	120	...	...	...	88	
Toungoo ...	140	74	...	16	672	
Shwegyin ...	...	184	...	...	120	
Western ...	1,060	262	...	...	6	
Agency ...	...	...	6,728	...	...	Duty on Rangoon fuel.
Total ...	1,66,300	887	6,745	62	912	

3.—*Free Grants.*

Free grants of timber.

53. For religious purposes, bridges and works of public utility, free grants to the following extent were made during the year,—teak, 212 tons; pyinma, 67 tons; kanyin, 17 tons; and thingan, 13 tons.

4.—*Summary of Outturn.*

Total outturn from all divisions.

54. The following is an estimate of the total outturn of timber from the different divisions during the year. These results are given in full detail, including minor produce, in Appendix O :—

How extracted.	Teak.	Other reserved woods.	Unreserved woods.	Bamboos.
	Tons.	Tons.	Tons.	Number.
By Government agency	29,199	603	245	...
By purchasers	1,289	2,089	80,308	1,613,000
By right-holders	...	9	5	587,000
Under free grants	212	97	86	...
Total ...	30,700	2,798	80,644	2,200,000

The outturn of teak is 1,657 tons in excess of the previous year owing to the quantity of paddy-field teak worked out. Reserved woods show a decrease of 1,826 tons, while unreserved woods show the large increase of 46,172 tons.

5.—*Drift Operations.*

Drift collections.

55. The quantity of drift collected and disposed of is shown in the following statement:—

Division.	Balance, 1886-87.	Collected during 1887-88.	Returned to claimants.	Sold.	Drifted or utilized departmentally.	Transferred to other depôts.	Balance.
Prome	888	2,715	2,156	560	36	155	146
Rangoon	9	777	...	...	...	786	...
Toungoo	188	2,385	2,137	386	...	...	...
Shwegyin	82	1,302	1,141	195	18	...	30
Western	121	2,000	1,769	325	...	...	27
Agency	74	1,322	1,201	84	...	...	111
Total ...	762	10,501	8,404	1,550	54	941	314

6.—*Girdling.*

Girdling operations.

56. The proposed and actual girdlings are shown for comparison in the following table:—

Division.	Reserve.	Proposed girdling		Actual girdling	
		Inside reserves.	Outside reserves.	Inside reserves.	Outside reserves.
Prome	.....	...	2,000	...	2,006
Tharrawaddy	Thônzè ...	2,000	...	2,005	...
	Kôn Bilin ...	500	...	500	...
	Kadin Bilin ...	2,000	...	2,000	...
	Môkka ...	500	...	500	...
Rangoon	Zamayi ...	500	...	500	...
Toungoo	.....	...	6,000	...	6,550
Shwegyin	.....	...	1,500	...	1,500
Western	.....	...	1,000	...	1,039
	Total ...	5,500	10,500	5,505	11,095

The excess girdling of 550 outside reserves in the Swa forests, Toungoo division, exhausts these unreserved forests, and advantage was taken of the girdling party being on the spot to complete the girdlings there. All the girdlings have been generally inspected and revised by gazetted officers.

7.—*Disposals and Sale Depôts.*

Local sales.

57. One hundred and thirty rejected (contractors') and refuse teak logs were sold at Prome, realizing Rs. 2,625-8-0, and 6,185 pieces of confiscated jungle wood were sold for Rs. 190-2-9. In the Tharrawaddy division 4,974 paddy-field teak logs (1,824 tons) were sold for Rs. 27,299-11-11; 35 tons (159 logs) of teak refuse were disposed of at Paungdè for Rs. 637-12-8; and six teak logs (5·1 tons) from the Thônzè forests were sold for Rs. 167-4-0. In the Toungoo division 1,197 teak logs (988 tons) including "bala" were sold for Rs. 31,270-2-4, and also 37 pyinma (25 tons), 46 thitka (38 tons), and three confiscated logs for Rs. 602-13-0. The sales in the Shwegyin division were 146 teak logs (132 tons) for Rs. 4,358-13-6, 152 kanyin logs (200·8 tons) for Rs. 2,209-5-6, and 195 drift logs sold at Myitkyo, which realized Rs. 4,146-10-9. The teak sales in the Western division amounted to Rs. 2,647-14-9 on account of 78 contractors' teak logs (68·3 tons)

and 32 confiscated teak logs (10·6 tons). In addition the following sales were made :—

	Logs.	Tons.	Rs.	A.	P.
Kashit	51	87·6	527	2	4
Kanyin	128	88·5	1,163	12	11
Pyinkado	88	59·7	867	15	5
One hundred rejected pyinkado sleepers	...	...	25	0	0

Timber depôt at Rangoon.

58. The arrivals and disposals of timber at the Rangoon timber depôt are shown in the following table :—

Description.	Balance on 1st April 1887.		Arrivals during the year.		Sales and disposals during the year.		Balance on 31st March 1888.	
	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.	Logs.	Tons.
Teak	24,871 54*	22,818	22,701	22,993	28,259 10*	28,235	19,313 44*	17,576
Drift teak	75	40	1,244	914	1,278	924	41	30
Woods of other kinds ...	15	10	15	11	20	...	31	...
Drift of other kinds ...	8	10	8		16			

* Sleepers.

The arrivals of teak during the year are 4,797 tons below that of the previous year, and the balance on hand shows a decrease of 5,252 tons. The sales and disposals were 2,503 tons in excess.

Summary of sales from Rangoon depôts.

59. The sales from the Rangoon depôts realized Rs. 11,72,563, made up of the following items :—

	Logs.	Tons.	Rs.	Rs.	A.	P.	
Teak, auction sales ...	16,893	14,710	5,71,203	41	6	11	Per ton.
Teak, indent sales ...	11,865	13,524	5,98,700				
Thitka, auction sales ...	8	1	54	28	11	6	
Pyinma, auction sales ...	18	14	332	22	13	4	
Teak sleepers, auction sales	10	...	5	...			
Drift, auction sales ...	98	65	2,269	...			

The average rate for teak is 11 annas 1 pie below that of the previous year.

Approximate value of stock of timber at depôt.

60. The balance of timber at the depôt consisted of 586 I class, 18,768 II class, and 44 sleepers, or 17,606 tons. Based upon rates ruling at present this may be valued at Rs. 35 per ton, or Rs. 6,16,200, a decrease of Rs. 52,300 compared with last year.

CHAPTER V.

Imports and Exports of Timber, &c.

61. The imports by the Irrawaddy passed at Allanmyo amounted to 19,942 teak logs, 68 squares, 667 planks, 50,076 wheel-pieces, and 22,030, or roughly 20,000 tons, a decrease of 5,600 tons. By the Sittang, passed at Toungoo, 20,304 teak logs, 20,500 tons, were imported, an increase of about 2,500 tons.

Of woods of other kinds 230 padauk, 16 pyinkado, and 30 didu logs were passed at Allanmyo.

The exports of teak from Rangoon were 52,417 tons compared with 46,734 exported during last year. The estimated value was Rs. 36,99,610, or Rs. 70-9-3 per ton, showing a decrease in value of Rs. 3-9-6 per ton. The cutch exports amounted to 361,715 cwts., an increase of 115,145 cwts. on the previous year, or 47 per cent. The value is estimated at Rs. 58,66,417 against Rs. 37,35,119 last year. Full details as to the export of forest produce from Rangoon are given in Appendix C.

CHAPTER VI.

Financial Results.

Financial results.

62. The revenue and expenditure of the year under review amounted to—

	Rs.	A.	P.
Revenue	16,75,094	2	10
Expenditure	7,03,319	4	0
Surplus ...	9,71,774	14	10

or a net increase of Rs. 1,29,593 upon the surplus of this circle for last year.

Comparison with previous years.

63. The usual comparison with the previous three years is here given—

	Revenue. Rs.	Expenditure. Rs.	Surplus. Rs.
1884-85	12,71,828	9,04,119	3,67,209
1885-86	15,54,616	8,32,488	7,22,178
1886-87	14,97,355	6,55,174	8,42,181
1887-88	16,75,094	7,03,320	9,71,774

Detailed comparison with previous year.

(*a*)I.—Revenue and expenditure.

64. The receipts for timber extracted by Government agency amounted to Rs. 12,57,556, an increase of Rs. 43,056, and the expenditure shows also an increase of Rs. 49,627, or a difference of Rs. 6,571 against the year's transactions, calling for no remarks.

(*b*)II.—Receipts and disbursements.

65. The revenue upon timber and minor produce increased by Rs. 1,32,135, while the expenditure only shows an increase of Rs. 717. The local trade in unreserved woods improved during the year. The duty on Rangoon fuel brought in Rs. 6,728, and the cutch revenue increased by Rs. 77,196, the greater part of which was collected in the Thayetmyo district. The high market rate for this commodity has not fallen during the year, and has led to increased activity on the part of the cutch-boilers.

(*c*) Drift operations.

66. Both the receipts and disbursements upon collection of drift show a small decrease, namely, Rs. 3,346 and Rs. 1,779 respectively. The increased outlay, Rs. 1,567, is due to more activity having been displayed in the collection of sea-drift, which entails outlay, but brings in as a rule no surplus.

(*d*) Miscellaneous.

67. Miscellaneous receipts amounted to Rs. 4,997 more and the expenditure to Rs. 5,403 less than in 1886-87. No large refunds were made during the year.

(*e*) Live-stock, stores, &c.

68. Under live-stock, stores, &c., the disbursements exceeded the previous year's by Rs. 2,995, accounted for by the purchase of three elephants against one in 1886-87.

(*f*) Buildings.

69. The expenditure upon communications and buildings decreased by Rs. 5,346. No new rest-houses were built.

(*g*) Plantations, working plans, &c.

70. An increased outlay of Rs. 9,806 was incurred under AVIII. The Working Plans party accounts for Rs. 3,284 of this, and the balance was chiefly spent upon new plantations, which were greater in area, and also upon clearing and weeding the older ones.

(*h*) Cost of establishment.

71. Establishment charges show a decrease of nearly Rs. 4,000. The pay of superior officers, excluding Conservator, was Rs. 7,703 less than in the previous year. Vacancies caused by transfers to Upper Burma were not filled up. The total of travelling allowance charges remained about the same; those of the subordinate forest and office establishments increased. Contingencies increased by Rs. 1,275. The crew of the launch had to be paid for some months, and extra peons had to be entertained for carriage of letters as men would not travel alone in the forests.

Financial results arranged divisionally.

72. The revenue and expenditure of each division is exhibited in the following table :—

Division.	Revenue.			Expenditure.	Surplus or deficit.
	Collected locally.	Agency collection.	Total.		
	Rs.	Rs.	Rs.	Rs.	Rs.
Prome	2,01,802	85,385	2,87,187	65,277	2,21,910
Tharrawaddy	96,895	5,23,349	6,20,244	2,42,532	3,77,712
Rangoon	88,854	2,26,066	2,64,920	1,23,491	1,41,429
Toungoo	61,419	3,39,344	4,00,763	2,05,321	1,95,442
Shwegyin	24,446	...	24,446	25,218	—767
Western	53,759	1,282	55,041	39,068	15,973
Agency	...	22,498	22,498	2,418	20,075
Total ...	4,77,175	11,97,919	16,75,094	7,03,320	9,71,774

Summary of receipts and charges.

73. Compared with the two last years the summary of receipts and charges is as follows :—

	Receipts.			Charges.			Surplus or deficit.					
	1885-86	1886-87.	1887-88	1885-86	1886-87	1887-88	1885-86.		1886-87		1887-88	
							Surplus	Deficit.	Surplus	Deficit	Surplus.	Deficit
	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs	Rs
I.—Departmental timber operations	13,79,427	12,66,169	13,05,807	6,55,706	4,96,621	5,34,259	7,23,721	...	7,69,548	...	7,71,548	
II.—Other revenue	1,75,189	2,31,166	3,69,287	64,381	67,740	65,898	1,10,808		1,63,426	...	3,03,389	
III.—Formation and improvements	..	...	.	1,12,351	90,813	1,03,163	...	1,12,351	..	90,813	...	1,03,163
Total ...	15,54,616	14,97,355	16,75,094	8,32,438	6,55,174	7,03,320	7,22,178	...	8,42,181	..	9,71,774	

General.

Timber markets.

74. No improvements of any lasting nature took place in the teak markets either in Europe or India during the year.

Act and rules.

75. Under section 37 of the Act an addition was made to the rules imposing a royalty upon firewood brought to Rangoon, and a few unimportant alterations were made in other rules.

Elephants.

76. At the commencement of the year there were 33 elephants ; four were purchased during the year and two died, leaving a balance of 35. The average monthly cost per animal amounted to Rs. 36-13-7.

Steam-launch *Forester*.

77. The launch returned from Upper Burma in 1887 had to be thoroughly repaired and put in order before she could be used again.

Controlling officer.

78. The circle was in charge of the writer of this report except for three months, when he was on privilege leave, and during which time it was held by Mr. Hill and Captain Bingham. The Conservator is satisfied with the work done and energy displayed by all officers. The health of officers, with the exceptions of the Conservator, Captain Bingham, Mr. Thellusson, and Mr. Mercer (the latter had to be transferred to India), has been fairly good.

79. Sub-Assistants Maung Kalè, Mr. Allan, and Maung Thakado have worked well. Generally the work of the subordinate executive staff has not been satisfactory; fear of dacoits may partially account for this. Two forestguards in Tharrawaddy were killed by dacoits. A ranger absconded and a depôt overseer was sent to jail for one year for dishonesty.

Executive staff.

80. Mr. Buchanan and Mr. Allmark have as usual merited the approbation of the Conservator by the manner in which they have discharged their duties, and generally office establishments have given satisfaction.

Office and agency.

E. P. POPERT,

Conservator of Forests, Pegu Circle.

APPENDICES.

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1887-88.*

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1887.		Added during the year.	Excluded or transferred to other heads.	Area on 31st March 1888.		No. and date of notification of addition or transfer.	Remarks.
				Acres.	Equivalent in square miles.	Acres.	Acres.	Acres.	Equivalent in square miles.		
West Salween...	West Salween	Salween	Wamu chaung	1,920	3	...	...	1,920	3		
			Sinzwè	8,960	14	...	...	8,960	14		
			Kahilu	9,600	15	...	...	9,600	15		
			Minnanwè	3,840	6	...	...	3,840	6		
			Mewaing	7,360	12	...	...	7,360	12		
			Upper Methalauk ...	8,960	14	...	...	8,960	14		
			Lower Methalauk ...	3,840	6	...	...	3,840	6		
		Shwegyin	Bilakatkyi	8,320	13	...	...	8,320	13		
			Onkangyi	8,320	13	...	...	8,320	13		
		Amherst	Tagalaung	5,120	8	...	...	5,120	8		
		Salween	Pa chaung	25,600	40	...	...	25,600	40		
			Dagwin	6,400	10	...	...	6,400	10		
East Salween ...	East Salween.	Amherst	Kamawkala	5,760	9	...	...	5,760	9		
			East Mepalè	38,400	60	...	...	38,400	60		
			Metkanè	17,280	27	...	...	17,280	27		
			Mepalè	25,600	40	...	...	25,600	40		
			Kyaukket	12,160	19	...	...	12,160	19		
			Megala	6,400	10	...	...	6,400	10		
			Winsaw	6,400	10	...	...	6,400	10		
			Mithawè	12,160	19	...	...	12,160	19		
			South Myawadi	150	...	...	...	150	...		
			Onkaraing	33,920	53	...	...	33,920	53		
			Gawlè	37,120	58	...	...	37,120	58		
			Baledo	1,600	2	...	...	1,600	2		
Attaran ...	Attaran ...	Amherst	Dali	7,680	12	...	...	7,680	12		
			Pakabo	20,480	32	...	...	20,480	32		
			Natchaung	5,760	9	...	...	5,760	9		
			Gongyi	27,520	43	...	...	27,520	43		
			Ma-u	8,960	14	...	...	8,960	14		
			Megwa	12,160	19	...	...	12,160	19		
			Thingannyinaung ...	5,760	9	...	...	5,760	9		
			Kyunchaung	10,880	17	...	...	10,880	17		
			Yè	202,880	317	...	...	202,880	317		
South Tenasserim.	Tavoy ...	Tavoy	Mintha	64,000	100	...	...	64,000	100		
			Kaleinaung	294,400	460	...	...	294,400	460	.....	Includes Karen area of 12 square miles.
	Mergui ...	Mergui	Ngawun chaung	...	...	192,000	...	192,000	300	Notification No. 37F., dated 28th July 1887.	
			Total Tenasserim Circle ...	955,670	1,493	192,000	...	1,147,670	1,793		
			A.—Classed State Forests and Waste Lands.								
			(a) *Reserved Forests.*								
	Myedè ...	Thayetmyo	Tindaw	2,880	5	...	...	2,880	5		
			Satsuwa	4,800	7	...	...	4,800	7		
			Thayetmyo, East Yoma ...	71,680	112	...	...	71,680	112		
	Kama ...	Ditto	Saingdo	1,216	2	...	...	1,216	2		
			Thabala	6,080	9	...	...	6,080	9		
			Mindôn Yoma	166,400	260	...	...	166,400	260		
			Ngawet	3,200	5	...	...	3,200	5		
			Total Thayetmyo ...	256,256	400	...	...	256,256	400		

ME.

PEGU			Thitkat and Ayodaung ...	2,944	5	...	...	2,944	5	
			Thayetchaung and Nyaungbindet.	4,864	8	...	...	4,864	8	
			Kywèmido	2,442	4	...	...	2,442	4	
			Nabebyu	3,840	6	...	...	3,840	6	
			Shwelaung and Pwegin ...	13,120	21	...	...	13,120	21	
			Gwègyo	6,720	10	...	...	6,720	10	
	Nawin ...	Prome	Chaungzauk	9,408	15	...	...	9,408	15	
			Ngaluzan	700				700		
			Shwekyuudaw	256	2	...	...	256	2	
			Prome plantation ...	73				73		
			Prome, East Yoma ...	97,600	152	...	...	97,600	152	..... Includes Karen area of 43 square miles.
						...	...			
			Tònyè fuel reserve ...	12,224	19	...	...	12,224	19	
			Pauktaw fuel reserve ...	4,672	7	...	...	4,672	7	
			Sinmizwè fuel reserve ...	6,400	10	...	...	6,400	10	
			Total ...	165,263	259	...	...	165,263	259	
			Total Prome division ...	421,519	659	...	...	421,519	659	
			Karen areas ...	27,520	43	...	...	27,520	43	
			Total area free of taungya privileges.	393,999	616	...	...	393,999	616	
THARRAWADDY.			Shwele Yoma	33,600	52	...	...	33,600	52	..... Includes Karen area of 12 square miles
			Dawle	1,800	3	...	...	1,800	3	
			Padetmyaung	4,500	7	...	...	4,500	7	
			Kyaukkyitaung	2,600	4	...	...	2,600	4	
	Shwele ...	Prome	Bwet	2,900	5	...	...	2,900	5	
			Gwedaukkwin	10,200	16	...	...	10,200	16	
			Kyibyu	2,200	3	...	...	2,200	3	
			Kadinzauk and Kadinthônzin	3,500	6	...	...	3,500	6	
			Shabaung	2,200	3	...	...	2,200	3	
			Tarôkmaw and Inma ...	24,576	38	...	...	24,576	38	..... Partly in Tharrawaddy district.
			Taungnyo Yoma	88,320	138	...	...	88,320	138	..... Includes Karen area of 36 square miles.
			Upper Padinbin	600	1	...	...	600	1	
			Lower Padinbin	200	...	...	...	200	...	
			Tapun	4,260	7	...	...	4,260	7	
			Nyanlè	5,800	9	...	1,282	4,518	7	..... Survey corrections.
			Kanni	800	1	...	205	595	1	..... Ditto.
			Pazingyi	1,300	2	25	...	1,325	2	..... Ditto.
			Taungnyomyo	4,780	8	...	...	4,780	8	
	Bawbin ...	Tharrawaddy	Minbu	14,003	22	...	...	14,003	22	..... Includes Karen area of 35·66 sq. miles.
			Bawbin	65,594	102	...	...	65,594	102	.....
			Upper Payagyi	704	1	...	...	704	1	
			Lower Payagyi	307	...	...	...	307	...	
			Thitcho	2,970	5	...	...	2,970	5	
			Kangyi	4,896	6	...	...	4,896	8	
			Gwedauksan	1,222	2	...	...	1,222	2	
			Chaungwa	1,504	2	...	...	1,504	2	
			Myodwin	38	...	...	...	38	...	
			Carried over ...	285,374	445	25	1,487	283,912	443	

ANNUAL FORM NO. 49 [PRESCRIBED].—*Area of Reserved Forests in the Tenasserim and Pegu Circles for the year 1887-88*—(concluded).

Division.	Range.	Civil district or territory.	Name of forest.	Area on 1st April 1887. Acres.	Area on 1st April 1887. Equivalent in square miles.	Added during the year. Acres.	Excluded or transferred to other heads. Acres.	Area on 31st March 1888. Acres.	Area on 31st March 1888. Equivalent in square miles.	No. and date of notification of addition or transfer.	Remarks.
			Brought forward ...	285,374	445	25	1,487	283,912	443		
THARRAWADDY—(concluded).	Bawbin ...	Tharrawaddy ...	Chaungzauk (fuel) ...	3,454	5	...	...	3,454	5		
	Gamón ...	Ditto	Minhla...	25,453	40	...	...	25,453	40	.....	Includes Karen area of 6·43 square miles.
			Gamón	47,757	75	...	...	47,757	75	.....	Includes Karen area of 29·31 square miles.
			Taung	14,016	22	...	...	14,016	22	.....	Includes Karen area of 8·43 square miles.
			Taukkyan	3,138	5	...	...	3,138	5		
			Thakolan	1,134	2	...	...	1,134	2		
			Chaungnagón	350	1	...	...	350	1		
			Satpók (fuel)	5,276	8	...	...	5,276	8		
			Sitkwin (fuel)	3,080	5	...	...	3,080	5		
	Bilin ...	Ditto	Mókka	22,406	35	...	...	22,406	35	.....	Includes Karen area of 10·28 square miles.
			Kadin-Bilin	53,363	83	...	...	53,363	83	.....	Includes Karen area of 22·33 square miles.
			Kón-Bilin	15,987	25	...	...	15,987	25		
			Thónzè	69,734	109	...	...	69,734	109	.....	Includes Karen area of 14·80 square miles.
			Thindawyo (fuel) ...	6,551	10	...	...	6,651	10		
			Total Tharrawaddy division	557,073	870	25	1,487	555,611	868		
			Karen areas ...	112,043	175	...	...	112,043	175		
			Total area free of taungya privileges.	445,030	695	25	1,487	443,568	693		
	Paunglin	Hanthawaddy ...	Kyetpyugan	940	2	...	...	940	2		
	Kinbadi...	Ditto	Magayi	12,800	20	...	...	12,800	20		
			Okkan	80,000	125	...	...	80,000	125	.....	Includes Karen area of 13 square miles.
	Hlaing ...	Ditto ...	Hlaing Yoma	59,520	93	...	...	59,520	93		
			Total ...	153,260	240	...	...	153,260	240		
			Fuel Reserves.								
	Hlaing ...	Hanthawaddy	Hmawbi	1,846	3	...	...	1,846	3		
			Kyun	8,600	13	...	160	8,440	13	Notification No. 8F., dated 22nd Nov. 1887.	
			Thitpyat	3,100	5	...	1,820	1,280	2	Notification No. 7F., dated 22nd Nov. 1887.	
			Thabyu...	8,000	13	...	...	8,000	13		
			Wanet chaung	...	...	5,280	...	5,280	8	Notification No. 51F., dated 28th Sept. 1887.	
PEGU.			Total ...	21,546	34	5,280	1,980	24,646	39		

RANGOON.	Pegu	Pegu	Upper Zamayi	145,920	228	...	...	145,920	228	.....	Includes Karen area of 88·5 square miles.
			Lower Zamayi	112,000	175	...	...	112,000	175	.....	Includes Karen area of 18·5 square miles.
			Kadat	64,000	100	...	...	64,000	100		
			Letpan	10,880	17	...	...	10,880	17		
			Paunglin	68,480	107	...	...	68,480	107	.....	Includes Karen area of 7 square miles.
			Total	401,280	627	...	...	401,280	627		
			Total Rangoon division	576,086	901	5,280	1,980	579,386	906		
			Karen area	81,280	127	...	...	81,280	127		
			Total area free of taungya privileges.	494,806	774	5,280	1,980	498,106	779		
TOUNGOO.	Thagaya	Toungoo	Saing Yènè	70,440	110	...	...	70,440	110		
			East Swa	17,280	27	...	...	17,280	27		
			West Swa	38,400	60	...	...	38,400	60		
			Lônyan	10,880	17	...	...	10,880	17		
			Sabyin	26,240	41	...	...	26,240	41		
			Kyaukmasin	20,480	32	...	...	20,480	32		
			Gwethè	33,280	52	...	...	33,280	52		
	Zeyawadi	Ditto	Bôndaung	25,600	40	...	...	25,600	40		
			Kabaung	220,800	345	...	...	220,800	345	.....	Includes Karen area of 65·5 square miles.
	Bônmadi	Ditto	Kanni	280	...	...	...	280	...		
			Pyunchaung	3,400	5	...	...	3,400	5		
			Gonwè	6,400	10	...	...	6,400	10		
	Kya-thaung-daung.	Ditto	Thandaung	12,025	19	...	...	12,025	19		
			Total Toungoo division	485,505	758	...	...	485,505	758		
			Karen area	41,920	65	...	...	41,920	65		
			Total area free of taungya privileges.	443,585	693	...	...	443,585	693		
SHWEGYIN.	Sittang	Shwegyin	Kyundaung	960	1	...	...	960	1		
			Kyundaung extension	3,840	6	...	...	3,840	6		
	Kyaukkyi	Ditto	Binbyè	6,400	10	...	...	6,400	10		
	Bawni	Ditto	Upper Kanyinmyaung	8,320	13	...	...	8,320	13		
			Lower Kanyinmyaung	28,800	45	...	...	28,800	45		
			Tôngan	20,480	32	...	...	20,480	32		
			Total	68,800	107	...	...	68,800	107		
PEGU CIRCLE—TOTAL.		(a) Area free of taungya privileges		1,846,220	2,885	5,305	3,467	1,848,058	2,888		
		(b) Kreau areas		262,763	410	...	...	262,763	410		
		(c) Area of (a) (b)		2,108,983	3,295	5,305	3,467	2,110,821	3,298		
TENASSERIM CIRCLE—TOTAL.		(a) Area free of taungya privileges		947,990	1,481	192,000	...	1,139,990	1,781		
		(b) Karen areas		7,680	12	...	...	7,680	12		
		(c) Area of (a) (b)		955,670	1,493	192,000	...	1,147,670	1,793		
LOWER BURMA—GRAND TOTAL.		(a) Area free of taungya privileges		2,794,210	4,366	197,305	3,467	2,988,048	4,669		
		(b) Karen areas		270,443	422	...	...	270,443	422		
		(c) Area of (a) (b)		3,064,653	4,788	197,305	3,467	3,258,491	5,091		

ANNUAL FORM NO. 50 [PRESCRIBED].—*Prosecutions for Breaches of Forest Rules during the year 1887-88.*

Forest division and civil district.	Cases pending from 1886-87.	New cases of the year.					Total cases.	Disposed of during the year.						Cases pending at close of the year.	Remarks.
		Injury to forests by fire.	Unauthorized felling or appropriation of wood and minor forest produce.	Grazing without permission or in tracts in which grazing is prohibited.	Other offences.	Total new cases of the year.		Convictions.		Acquittals.		Total.			
								Cases.	Persons.	Cases.	Persons.	Cases.	Persons.		
Attaran Division, Amherst District—															
(a) Reserved forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
(b) Unreserved forests	...	...	16	...	...	16	16	8	8	8	8	16	16	...	
East Salween Division, Amherst District—															
(a) Reserved forests	...	...	1	...	...	1	1	1	4	...	...	1	4	...	
(b) Unreserved forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
West Salween Division, Amherst District—															
(a) Reserved forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
(b) Unreserved forests	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Kado Division—															
Moulmein Town and Amherst district	...	...	...	...	135	135	135	135	151	...	...	135	151	...	
South Tenasserim Division, Tavoy District—															
(a) Reserved forests	...	...	...	...	2	2	2	2	6	...	...	2	6	...	
(b) Unreserved forests	...	...	8	...	...	8	8	5	5	...	...	5	5	3	
Total Tenasserim Circle *	...	...	25	...	137	162	162	151	174	8	8	159	182	3	The two cases pending at the end of last year were compounded.
Prome—															
Prome civil district	...	...	54	...	3	57	57	50	56	7	10	57	66	...	
Thayetmyo	...	...	24	...	...	24	24	22	33	2	2	24	35	...	
Total	...	...	78	...	3	81	81	72	89	9	12	81	101	...	
Tharrawaddy—															
Tharrawaddy district	...	...	5	...	...	5	5	4	5	1	21	5	26	...	
Prome district	...	...	7	...	1	8	8	6	10	...	...	6	10	2	
Total	...	...	12	...	1	13	13	10	15	1	21	11	26	2	
Rangoon—															
Pegu district	...	...	...	...	2	2	2	2	2	...	...	2	2	...	
Hanthawaddy district	...	1	1	...	...	1	2	1	1	...	2	1	3	1	
Total	...	1	1	...	2	3	4	3	3	..	2	3	5	1	
Toungoo—															
Toungoo district	...	...	...	...	2	2	2	...	...	...	...	...	...	2	
Shwegyin—															
Shwegyin district	...	...	2	...	1	3	3	3	15	...	...	3	15	...	
Western—															
Bassein	...	...	17	...	...	17	17	17	23	...	...	17	22	...	
Henzada	...	...	6	...	...	6	6	5	13	1	1	6	14	...	
Myanaung	...	...	3	...	...	3	3	3	3	...	...	3	3	...	
Yandoon	...	...	5	...	...	5	5	4	4	1	1	5	5	...	
Total	...	...	31	...	...	31	31	29	43	2	2	31	44	...	
Total Pegu Circle	...	1	124	...	9	133	134	117	164	12	37	129	201	5	
GRAND TOTAL LOWER BURMA	...	1	149	...	146	295	296	268	338	20	45	288	383	8	

* 108 cases were compounded under Rule 66 of the Forest Rules; Rs. 4,878-8-0 were paid as compensation.

ANNUAL FORM NO. 51 [PRESCRIBED].—*Area of Forest Tracts protected from Fire during the Dry Season of 1888 (to accompany Report for 1887-88).*

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1887.	During dry season of 1888.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failure.	Actually protected.		
			Acres.	Acres.	Acres.	Acres.	Rs.	
West Salween	Sinzwe	1871	8,960	8,960	495	8,465	1,036	
	Wamu	1871	1,920	1,920	20	1,900	98	
	Kahilu	1878	1,280	2,560	.....	2,560	143	
	Mèwaing	1877	7,360	7,360	200	7,160	10	
	Minnannwè	1878	3,840	3,840	.....	3,840	9	
	Ônkangyi	1877	6,300	6,300	5,990	310	132	
	Bilakatkyi	1877	6,656	6,656	3,993	2,663	45	
	Tagèlaung	1885	3,070	3,072	3,032	40	.....	
East Salween ...	West Mèpalè	1881	25,600	25,600	5,958	19,642	1,740	
Attaran	Kyunchaung	1880	10,680	10,880	5,760	5,120	454	
	Dali	1878	100	108	9	99	231	
	Natchaung	1883	1,800	1,800	.....	1,800	100	
	Total ...	...	77,766	79,056	25,457	53,599	3,998	

FORM NO. 51 [PRESCRIBED].—*Area of Forest Tracts protected from Fire during the Dry Season of 1888 (to accompany Report for 1887-88)*—(concluded).

Division.	Forest tract.	Year in which protection commenced.	Area actually protected up to 15th June 1887.	During dry season of 1888.			Cost during the season.	Remarks.
				Area attempted to be protected.	Failure.	Actually protected.		
			Acres.	Acres.	Acres.	Acres.	Rs.	
PEGUE	Teak plantation	1857	.....	75	20	55	26	
	Chaungzauk reserve	1879	4,135	5,735	4	5,731	865	
THARRAWADDY	Bwet	1877	2,886	2,886	58	2,828	846	
	Gwedaukkwin	1866	.....	2,000	1,500	500	390	
	Kyaukkyitaung	1886	1,846	2,000	1,090	910	452	
	Nyanlè	1877	1,600	4,518	970	3,548	926	
	Lower Payagyi	1888	.....	100	.....	100	50	
	Bawbin	1869	812	1,500	17	1,483	292	
	Gwedauksan	1876	209	285	.....	285	99	
	Kangyi	1877	4,859	4,914	118	4,796	950	
	Myodwin	1860	40	40	.....	40	46	
	Myaung	1876	1,860	1,860	100	1,760	320	
	Minhla	1876	2,800	2,800	1,885	915	193	
	Môkka	1876	540	540	.....	.....		
	Môkka	1873	10,149	10,149	8,919	1,230	363	
	Kadin-Bilin	1873	7,326	7,326	5,464	1,862	194	
	Kôn-Bilin	1876	1,325	1,325	1,135	190	90	
	Thônzè	1876	1,295	1,295	10	1,285	132	
RANGOON	Magayi plantation	1872	1,657	1,674	.....	1,674	1,874	
	Magayi reserve	1872	2,097	2,070	.....	2,070		
	Kyetpyugan plantation	1868	561	683	.....	683	791	
	Kyetpyugan teak yas	1884	47	115	.....	115		
	Kyetpyugan reserve	1886	144	142	.....	142		
	Dawè plantation	1883	407	537	.....	537	100	
	Dawe reserve	1883	30,362	30,568	11,520	19,048		
TOUNGOO	Pyunchaung reserve	1877	3,340	3,440	500	2,940	312	
	Saing Yènè reserve	1877	5,760	12,800	220	12,580	639	
	East Swa reserve	1883	17,280	17,280	200	17,080	533	
	Nôndaung reserve	1884	17	17	17	.....	20	
	Kabaung reserve	1884	105	105	105	.....	18	
	Total Pegu Circle	.....	103,449	118,779	34,392	84,387	10,461	
	GRAND TOTAL LOWER BURMA	.....	181,215	197,635	59,849	137,986	14,459	

Note.—The figures showing the actually protected area in column 7 of Form No. 51 of the Report for 1886-87 were approximate only. The actual figures as ascertained by survey are shown in column 4 of the present statement.

ANNUAL FORM NO. 52 [PRESCRIBED].—*Statement showing the Area of Plantations in the Tenasserim Circle for 1887-88.*

Division.	Name of plantation.	Area in acres.				Receipts	Charges	Remarks.
		On 1st April 1887.	Added during the year.	Excluded during the year.	Area on 31st March 1888.	Of the year.		
	Regular Plantations.					Rs.	Rs.	
ATTARAN	Thinganyinaung	16	...	...	16	...	...	
WEST SALWEEN	Shwegun	5	...	...	5	...	...	
	Kolón island	2	...	...	2	...	...	
	Total ...	7	...	...	7	...	...	
	Total Regular Plantations ...	23	...	...	23	...	...	
	Cultural Operations.							
	Mergui experimental plantation (not teak)	108	...	...	108	...	943	
	Total Cultural Operations ...	108	...	...	108	...	943	
	Total Regular Plantations ...	23	...	...	23	...	...	
	Total Taungya Plantations ...	3,025	799	...	3,824	...	4,870	
	Total Cultural Operations ...	108	...	...	108	...	943	
	Total Tenasserim Circle ...	3,156	799	...	3,955	...	5,813	

ANNUAL FORM No. 52 [PRESCRIBED].—*Statement showing the Area of Plantations in the Pegu Circle for 1887-88.*

Division.	Name of plantation.	Areea in acres. On 1st April 1887.	Added during the year.	Excluded during the year.	Area on 31st March 1888.	Receipts Of the year.	Charges Of the year.	Remarks.
	Regular Plantations.							
PROME ...	Prome plantation	73	.....	.....	73	Rs. 487	Rs.	
THARRAWADDY	Bawbin chaungwa	340	.....	.....	340	.....	.....	
	Kywèmakaing	144	.....	.....	144	.....	60	
	Myodwin	10	.....	.....	10	.....	.....	
	Total ...	494	.....	.....	494	.....	60	
RANGOON	Kyetpyugan	796	2	.....	798	.....	1,305	
	Magayi	1,657	17	.....	1,674	.....	1,324	
	Teak seeds	.....	.....	.....	.....	.....	58	
	Total ...	2,453	19	.....	2,472	.....	2,687	
TOUNGOO	Kanni	65	.....	.....	65	.....	20	
	Pyunchaung	701	.....	.....	701	.....	.....	
	Yènè	9	.....	.....	9	.....	.....	
	Total ...	775	.....	.....	775	.....	20	
ARAKAN ...	Myanhtaing	10	.....	.....	10	.....	.....	
	Total Regular Plantations ...	3,805	19	.....	3,824	487	2,767	
	Cultural Operations.							
PROME	Chaungzauk	.....	.....	.....	.....	.....	12	
	Teak seeds	.....	.....	.....	.....	.....	25	
	Total ...	.....	.....	.....	.....	.....	37	
THARRAWADDY	Bwet	600	.....	.....	600	.....	.....	
	Nyanlè	830	.....	.....	830	.....	594	
	Kangyi	350	.....	.....	350	.....	.....	
	Mókka-Bilin	1,008	.....	.....	1,008	.....	.....	
	Kyaukkyitaung	.....	.....	.....	.....	.....	.....	
	Gwèdaukkwin	.....	.....	.....	.....	.....	.....	
	Paxingyi	125	.....	.....	125	.....	.....	
	Kadinzauk	300	.....	.....	300	.....	.....	
	Kón-Bilin	.....	.....	.....	.....	.....	12	
	Teak seeds	.....	.....	.....	.....	.....	125	
	Total ...	3,213	.....	.....	3,213	.....	731	
RANGOON ...	Magayi	.....	.....	.....	.....	.....	.....	
TOUNGOO ...	Pyunchaung	.....	.....	.....	.....	.....	.....	
	Total Cultural Operations ...	3,213	.....	.....	3,213	.....	768	
	Total Regular Plantations ...	3,805	19	.....	3,824	487	2,767	
	Total Cultural Operations ...	3,213	.....	.....	3,213	.....	768	
	Total Taungya Operations ...	8,654	977	.....	9,631	.....	21,885	
	Total Pegu Circle A VIII(*d*) ...	15,672	996	.....	16,668	487	25,420	
	ABSTRACT.							
	Lower Burma.							
	Total Regular Plantations	3,828	19	.....	3,847	487	2,767	
	Total Taungya Plantations	11,679	1,776	.....	13,455	.....	26,755	
	Total Cultural Plantations	3,321	.....	.....	3,321	.....	1,711	
	GRAND TOTAL ...	18,828	1,795	.....	20,623	487	31,233	

APPENDICES.

ANNUAL FORM NO 52A.—*Statement of Taungya, Teak, Thitka, and Padauk Plantations in the Tenasserim Circle for 1887-1888.*

Division.	Name of reserve.	Year of formation.	Areas on 1st April 1887.	Area planted with teak, &c., during 1887-88.	Cost up to 1886-87.		Cost during 1887-88.		Total cost.	Average cost per acre up to 1887-88.	Area on 31st March 1888.	Remarks.
					Original cost.	Maintenance.	Original cost.	Maintenance.				
			Acres.	Acres.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.	Acres.	
WEST SALWEEN	Sinzwè	1869-70	1,153	85	2,546	4,443	471	456	7,916	6 6 3	1,238	
	Wamu	1877-78	55	...	270	130	...	6	406	7 6 1	55	
	Kahilu	1879-80	93	44	285	522	157	192	1,156	8 7 0	137	
	Ônkangyi	1877-78	520	210	1,632	582	567	304	3,105	4 4 0	730	
	Bilakatkyi	1877-78	177	155	394	269	123	195	981	2 15 3	332	
	Minnanmwè	1877-78	113	...	436	115	...	...	551	4 14 0	113	
	Mewaing	1878-79	241	143	1,029	349	680	19	2,077	5 6 6	394	
	Total	.....	2,352	637	6,592	6,410	2,018	1,172	16,192	5 6 8	2,989	
ATTARAN	Dali	1877-78	146	8	588	276	55	28	947	6 2 4	154	
	Kyunchaung	1881-82	155	23	1,164	405	180	80	1,829	10 4 4	178	
	Pakabo	1883-84	3	...	11	7	...	...	18	6 0 0	3	
	Total	.....	304	31	1,763	688	235	108	2,794	8 5 5	335	
EAST SALWEEN	Mèpalè	1882-83	361	131	2,022	413	754	583	3,772	7 10 8	493	
	Total	.....	361	131	2,022	413	754	583	3,772	7 10 8	493	
	Plantations other than Teak.											
WEST SALWEEN	Kahilu	1883-84	6	...	35	14	...	...	49	8 2 8	6	
ATTARAN	Dali	1886-87	2	...	14	...	...	...	14	7 0 0	2	
	Total	.....	8	...	49	14	...	...	63	7 14 0	8	
	GRAND TOTAL TENASSERIM CIRCLE	.....	3,025	799	10,426	7,525	3,007	1,863	22,821	5 15 5	3,824	

ANNUAL FORM NO. 52A.—*Statement of Taungya, Teak, Cutch, &c., Plantations in the Pegu Circle for 1887-88.*

Division.	Name of forest.	Area in acres.				Cost up to 1886-87.		Cost during 1887-88.		Total.	Average per acre.
		On 1st April 1887.	Added during the year.	Excluded during the year.	Area on 31st March 1888.	Original Cost.	Maintenance.	Original cost.	Maintenance.		
						Rs.	Rs.	Rs.	Rs.	Rs.	Rs. A. P.
PROME ...	Chaungzauk ...	498	6	.....	504	3,028	3,465	68	214	6,775	13 7 1
THARRA-WADDY.	Bwet ...	300	.....	.....	300	1,613	593	.....	72	2,278	7 9 5
	Shwele Yoma	.....	.....	.....	.....	76	.....	.....	.....	76	.....
	Nyanlè ...	385	112	.....	497	4,422	1,149	1,251	673	7,495	15 1 3
	Taungnyo Yoma	.....	.....	.....	.....	135	59	.....	.....	194	.....
	Thitcho	15	.....	.....	15	70	.....	.....	.....	70	4 10 6
	Gwèdauksan ...	81	.....	.....	81	809	362	.....	128	1,389	17 2 4
	Bawbin Kyaukpyu	.....	.....	.....	.....	118	10	.....	.....	128	.....
	Bawbin Chaungwa	316	45	.....	361	3,110	1,113	643	265	5,131	14 3 5
	Lower Pazingyi	24	43	.....	67	247	.....	570	46	863	12 14 1
	Kaugyi ...	304	8	.....	312	2,818	1,249	113	302	4,482	14 5 10
	Myodwin ...	2	.....	.....	2	31	4	.....	5	40	20 0 0
	Myaung ...	237	60	.....	297	3,069	1,254	799	225	5,347	18 0 0
	Minbla ...	782	150	.....	932	9,010	2,751	1,985	885	14,631	15 11 2
	Mókka ...	2,361	240	.....	2,601	22,216	9,355	3,206	2,543	37,320	14 5 7
	Kadin-Bilin ...	658	115	.....	773	7,512	2,258	1,505	1,053	12,328	15 15 2
	Kón-Bilin ...	368	.....	.....	368	3,203	1,206	.....	568	4,977	13 8 5
	Thòuzè ...	315	51	.....	366	2,700	1,064	737	298	4,799	13 1 4
	Total	6,148	824	.....	6,972	61,249	22,427	10,799	7,063	1,01,538	14 9 0
RANGOON	Zamayi ...	357	115	.....	472	2,855	232	1,308	150	4,545	9 10 0
	Teak seeds ...	.....	.....	.....	.....	.....	.....	36	.....	36	.....
	Total	357	115	.....	472	2,855	232	1,344	150	4,581	9 11 3
TOUNGOO	Yènè ...	74	22	.....	96	816	189	119	63	1,187	12 5 10
	East Swa ...	167	10	.....	177	1,467	259	69	145	1,940	10 15 4
	Bòndaung ...	24	.....	.....	24	189	97	.....	25	311	12 15 4
	Kabaung ...	106	.....	.....	106	1,143	105	.....	80	1,328	12 8 5
	Pyunchaung ...	9	.....	.....	9	395	52	.....	27	474	52 10 8
	Cost of plantation boards	.....	.....	.....	.....	.....	.....	.....	41	41	.....
	Total	380	32	.....	412	4,010	702	188	381	5,281	12 13 1
SHWEGYIN ...	Kyaukkaung ...	.....	.....	.....	.....	30	.....	.....	.....	30	.....
	TOTAL TEAK TAUNGYAS	7,383	977	.....	8,360	71,172	26,826	12,399	7,808	1,18,205	14 2 3
PROME ...	Chaungzauk ...	38	.....	.....	38	350	288	.....	.....	638	16 12 8
TOUNGOO ..	Pyunchaung ...	2	.....	.....	2	8	.....	2	.....	10	5 0 0
	TOTAL CUTCH TAUNGYA	40	.....	.....	40	358	288	2	.....	648	16 3 2
PROME ...	Chaungzauk ...	590	.....	.....	590	3,839	2,092	.....	984	6,915	11 11 6
THARRA WADDY.	Kyaukkyidaung ...	235	.....	.....	235	1,958	765	.....	378	3,101	13 3 1
	Pazingyi ...	12	.....	.....	12	108	23	.....	131	131	10 14 8
	Gwèdaukkwin ...	394	.....	.....	394	3,222	1,486	.....	314	5,022	12 11 11
	Total	641	.....	.....	641	5,288	2,274	.....	692	8,254	12 14 0
	TOTAL TEAK AND CUTCH TAUNGYAS	1,231	.....	.....	1,231	9,127	4,366	.....	1,676	15,169	12 5 2
	TOTAL TAUNGYAS	8,654	977	.....	9,631	80,657	31,480	12,401	9,484	1,34,023	13 14 8

ANNUAL FORM NO. 53 [PRESCRIBED].—*Statement showing Number of Trees Felled or Girdled by Government Agency in the Tenasserim Circle during 1887-88.*

(SELECTION FELLINGS.)

Division.	Trees felled or girdled. Description.	Number.	Remarks.
East Salween	Teak...	872	Inside reserves.
	Teak...	69	Outside reserves.
West Salween ...	Teak...	181	Ditto.
	Total ...	1,122	
	Abstract.		
	Teak...	1,122	
	Total ...	1,122	

ANNUAL FORM NO. 53 [PRESCRIBED].—*Statement showing Number of Trees Felled or Girdled by Government Agency in the Pegu Circle during 1887-88.*

(SELECTION FELLINGS.)

Division.	Trees felled or girdled. Description.	Number.	Remarks.
Prome ...	Teak	2,006	Outside reserves.
Thabrawaddy ...	Teak	5,005	Inside reserves.
Rangoon ...	Teak	500	Ditto.
Toungoo ...	Teak	6,550	Outside reserves.
Shwegyin ...	Teak	1,500	Ditto.
Western ...	Teak	1,039	Ditto.
	Total ...	16,600	
	Abstract.		
	Teak, inside reserves ...	5,505	
	Teak, outside reserves ...	11,095	
	To ...	16,600	

FORM No. 54.—*Statement of Outturn of Timber and Firewood in the Tenasserim Circle during 1887-88.*

Division.	Description of materials.	Outturn in cubic feet.								Remarks.
		Selection fellings.	Clearances.	Thinnings	Total.	Removed by				
						Government agency.	Purchasers.	Free grants.	Right-holders.	
...	Teak logs and pieces	...	...	...	...	22,985	...	...	...	
EAST SALWEEN ...	Teak logs and pieces	...	...	...	...	234,876	...	...	...	Taungyin.
WEST SALWEEN	Teak logs and pieces	...	...	...	...	10,440	...	...	...	Bilin.
	Teak logs and pieces	...	...	...	...	8,388	...	...	...	Yunzalin.
	Teak logs and pieces	...	...	...	...	43,064	...	...	...	Döndami.
	Thitka	...	...	...	...	4,008	...	...	...	
SOUTH TENASSERIM ...	Pyinkado logs	...	...	...	...	510	...	...	...	
	Total ..	...	...	...	...	319,271	...	...	...	
	II.—PROTECTED FORESTS.									
	Nil.									
	III.—UNRESERVED FORESTS.									
ATTARAN ...	Teak logs and pieces	...	...	...	...	21,658	...	600	45,275	
	Padauk logs	...	...	...	...	1,151	...	...	..	
	Thitka logs	...	...	...	...	13,983	...	200	...	
	Pyinma logs	...	...	...	...	3,308	...	4,480	...	
	Thingan hulls	...	...	...	...	272	...	..	...	
	Thingan logs	...	...	...	...	...	...	3,120	...	
	Pyinma scantlings	...	...	...	...	36	...	...	...	
	Anan logs	...	...	...	...	...	...	400	...	
	Other reserved woods	...	...	...	...	...	19,748	...	15,411	
	Unreserved woods	...	...	...	...	...	161,415	6,000	40	
	Charcoal *	...	...	...	...	...	...	...	...	
EAST SALWEEN	Teak logs and pieces	...	...	...	...	90,396	...	...	...	Taungyin.
	Teak logs, pieces, and crooks	...	...	...	...	20,266	...	...	...	Hlaingbwè.
	Teak pieces	...	...	...	...	1,152	...	...	...	Hanngdraw.
	Teak logs, pieces, and crooks	...	...	...	...	2,806	...	...	...	Naupatòk.
	Thitka logs	...	...	...	...	713	...	...	...	
	Pyinma logs	...	...	...	...	10,956	...	5,400	...	
	Reserved woods, other kind	...	...	...	...	...	17,665	..	...	
	Unreserved woods	...	...	...	...	...	41,480	9,000	...	

West Salween	Teak logs and pieces	...	...	...	...	...	...	...	12,760	...	...	...
	Teak logs, pieces, and crooks	...	...	...	...	...	...	...	12,205	...	...	...
	Teak logs and pieces	...	...	...	...	...	...	...	13,438	...	...	...
	Teak logs, pieces, and crooks	...	...	...	...	...	...	...	23,076	...	...	7,255
	Teak logs, pieces, and crooks	...	...	...	...	...	...	...	11,738	...	...	...
	Thitka logs	...	...	...	...	...	...	...	2,617	...	...	...
	Pyinma logs	...	...	...	...	...	...	...	2,114	...	1,400	...
	Reserved woods, other kinds	...	...	...	...	...	...	...	...	3,373	600	...
	Unreserved woods	...	...	...	...	...	...	...	...	41,265	4,200	...
	Charcoal *	...	...	...	...	...	...	...	...	...	...	...
	Burnt teak	...	...	...	...	...	...	...	...	...	600	...
Kado	Teak logs and pieces	...	...	...	...	...	...	...	3,539	...	...	...
	Thingan logs	...	...	...	...	...	...	...	...	25	360	...
	Pyinma logs	...	...	...	...	...	...	...	...	...	1,760	...
	Unreserved woods	...	...	...	...	...	...	...	...	30,960	5,440	...
	Karawè	...	...	...	...	...	...	...	...	...	200	...
South Tenasserim	Thingan logs	...	...	...	...	...	...	...	...	27,050	400	...
	Kaunghmu	...	...	...	...	...	...	...	...	1,000	...	...
	Anan logs	...	...	...	...	...	...	...	...	1,885	...	...
	Kango logs	...	...	...	...	...	...	...	286	4,414	...	...
	Thitka logs	...	...	...	...	...	...	...	...	1,100	...	...
	Karawè logs	...	...	...	...	...	...	...	...	1,400	100	...
	Thitkado logs	...	...	...	...	...	...	...	...	300	100	...
	Unreserved woods	...	...	...	...	...	...	...	...	301,275	1,450	...
	Total	...			...	...	...	...	248,472	654,375	45,810	67,981
	Total Tenasserim Circle	...			...	...	...	...	567,743	654,375	45,810	67,981

The total quantity of firewood used cannot be given, as licenses are issued for the number of men engaged and not for the quantity of wood consumed.
*Charcoal should be shown by its equivalent in firewood.

FORM NO. 54.—*Statement of Outturn of Timber and Firewood in the Pegu Circle during 1887-88.*

Division.	Description of materials.	Outturn in cubic feet.								Remarks.
		Selection fellings.	Clearings.	Thinnings.	Total.	Removed by				
						Government agency.	Purchasers.	Free-grants.	Right-holders.	
	I.—RESERVED FORESTS.									
PROME ...	Teak logs	...	...	...	...	7,400	...	...	...	
	Teak posts	...	...	...	...	1,000	...	...	...	
	Cutch trees	...	...	...	...	...	406	...	...	
	Firewood	...	...	...	...	...	...	..	...	13 trees.
THABRAWADDY	Teak logs	...	...	...	...	235,812	...	...	...	
	Cutch trees	...	...	...	...	...	19,500	...	...	
	Firewood	...	...	...	...	...	..	...	...	14 trees.
RANGOON ...	Teak logs	...	...	...	...	57,476	...	...	...	
	Refuse teak	...	...	...	...	162,686	...	...	...	
	Unreserved woods	...	...	...	...	...	288,788	...	...	
	Total	...	...	...	...	464,374	308,694	...	...	
	II.—PROTECTED FORESTS									
	Nil.									
	III.—UNRESERVED FORESTS.									
PROME ...	Teak logs	...	...	...	...	63,800	...	...	...	
	Refuse teak	...	...	...	...	10,050	28,300	2,050	...	
	Unreserved woods	...	...	...	...	...	630,644	...	...	
	Posts and poles	...	...	...	...	...	173,000	...	...	
	Charcoal	..	...	...	...	...	...	...	...	3,303 trees.
THABRAWADDY	Teak logs	..	...	...	...	251,842	..	...	.	
	Teak paddy-fields	...	...	...	...	310,196	10,950	800	...	
	Reserved woods	...	...	...	...	...	796	.	...	
	Unreserved woods	...	...	...	...	...	187,000	...	...	
	Posts and poles	.	...	...	...	...	350	...	...	
	Charcoal	...	...	...	...	...	...	...	...	1,008 trees.

RANGOON ...	Teak logs ...	...	...	...	...	...	...	...	...	52,698	750	650	...	
	Reserved woods ...	...	...	...	...	...	...	...	...	...	1,128	...	450	
	Unreserved woods ...	...	...	...	...	...	...	...	...	1,200	419,062	...	...	
	Posts and poles...	...	...	...	...	...	...	...	...	...	34,500	...	...	
	Charcoal ...	...	...	...	...	...	...	...	...	...	...	...	...	281 trees.
TOUNGOO ...	Teak logs ...	...	...	...	...	...	...	...	...	285,650	12,400	1,450	...	
	Reserved woods ...	...	...	...	...	...	...	...	...	...	48,500	1,200	...	
	Unreserved woods ...	...	...	...	...	...	...	...	...	...	640,250	...	200	
	Posts and poles ...	...	...	...	...	...	...	...	...	...	34,500	...	50	
	Charcoal ...	...	...	...	...	...	...	...	...	...	...	...	...	3,181 trees.
SHWEGYIN ...	Teak logs ...	...	...	...	...	...	...	...	...	17,400	3,150	750	...	
	Reserved woods ...	...	...	...	...	...	...	...	...	20,350	21,150	150	...	
	Unreserved woods ...	...	...	...	...	...	...	...	...	...	124,800	4,300	...	
	Charcoal ...	...	...	...	...	...	...	...	...	...	...	...	...	1,569 trees.
WESTERN ...	Teak logs ...	...	...	...	...	...	...	...	...	3,050	2,250	4,900	...	
	Reserved woods ...	...	...	...	...	...	...	...	...	9,800	6,800	3,500	...	
	Unreserved woods ...	...	...	...	...	...	...	...	...	11,050	1,034,400	...	...	
	Posts and poles ...	...	...	...	...	...	...	...	...	...	217,200	...	...	
	Charcoal ...	...	...	...	...	...	...	...	...	...	...	...	...	525 trees.
AGENCY ...	Reserved woods ...	...	...	...	...	...	...	...	...	...	26,150	...	...	
	Unreserved woods ...	...	...	...	...	...	...	...	...	...	2,000	...	...	
	Posts and poles ...	...	...	...	...	...	...	...	...	...	9,000	...	...	
	Firewood ...	...	...	...	...	...	...	...	...	...	...	...	...	6,761,130 billets.
				Total	...	...	...	...	...	1,037,976	3,869,020	19,750	700	
			TOTAL PEGU CIRCLE		...	...	...	...	...	1,502,350	4,177,714	19,750	700	

FORM NO. 55.—*Statement showing Outturn of Minor Forest Produce in the Tenasserim Circle for 1887-88.*

Division.	Description of produce.	Produce removed or utilized								Remarks.
		By Government agency.		*By purchasers.*		*By free grants.*		*By right-holders.*		*Total.*		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
				I.—RESERVED FORESTS.								
				Nil.								
				II.—PROTECTED FORESTS.								
				Nil.								
				III.—UNRESERVED FORESTS.								
ATTARAN ...	Kanyin-oil	...	...	...	186	...	...	...	...	...	...	
KADO ...	Kanyin-oil	...	...	...	14	...	...	...	...	...	...	
SOUTH TENASSERIM.	Kanyin-oil	...	...	...	1,508	...	...	...	...	...	...	
	Total ...	...	...	...	1,708	...	...	...	...	...	...	

FORM NO. 55.—*Statement showing Outturn of Minor Forest Produce in the Pegu Circle for 1887-88.*

Division.	Description of produce.	PRODUCE REMOVED OR UTILIZED										Remarks.
		By Government agency.		*By purchasers.*		*By free grants.*		*By right-holders.*		*Total.*		
		Quantity.	Value	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
			Rs.		Rs.		Rs.		Rs.		Rs.	
	I.—RESERVED FORESTS.											
PROME	Bamboos ... ... No.	..	...	13,500	34	...	...	...	...	13,500	34	
	Thetkè ... ... Bundles	...	...	100	1	...	...	...	...	100	1	
	Shaw fibre ... ... Viss	...	...	1,900	19	...	...	...	...	1,900	19	
THARRAWADDY.	Bamboos ... ... No.	...	...	782,100	1,957	...	...	39,950	100	822,050	2,057	
	Grazing ... ... Head of cattle	...	...	295	121	...	...	1,935	725	2,230	846	
	Cutch ... ... Viss	...	...	399,500	29,511	..	...	...	...	399,500	29,511	
	Wood-oil ... ... ,,	...	...	250	12	...	...	...	...	250	12	
	Shaw fibre ... ... ,,	...	...	11,139	143	...	...	...	...	11,139	143	
	Cigar leaves ... ... ,,	...	...	7,650	76	...	...	...	...	7,650	76	
	Honey ... ... ,,	...	...	150	27	...	...	...	...	150	27	
	Thatch ... ... Bundles	...	...	2,250	35	...	...	55,650	50	57,900	85	
RANGOON	Bamboos ... ... No.	...	...	773,575	1,936	...	...	...	...	773,575	1,936	
	Grazing ... ... Head of cattle	...	...	323	115	...	...	...	...	323	115	
	Shaw fibre ... ... Viss	...	...	5,000	101	...	...	...	...	5,000	101	
	Theng ... ... Cart-loads	...	...	5	20	...	...	...	...	5	20	
	Rattan ... ... ,,	...	...	2	8	...	...	...	...	2	8	
	Thatch ... ... ,,	...	...	2	4	...	...	...	...	2	4	
	Laterite ... .. Feet	...	...	12,000	12	...	...	...	...	12,000	12	
	Salu ... ... Cart-loads	...	...	1	2	...	...	...	...	1	2	
	Betel leaves ... ... Viss	...	...	140	83	...	...	...	...	140	83	
TOUNGOO	Bamboos ... ... No.	...	...	45,775	114	...	...	...	...	45,775	114	
	Shaw fibre ... ... Viss	...	...	3,350	34	...	...	...	...	3,350	34	
	Kanyin-oil ... .. ,,	...	...	36	6	...	...	..	...	36	6	
	Total ...	...	...	...	34,371	...	...	...	875	...	35,246	
	II.—PROTECTED FORESTS.											
	Nil.											
	III.—UNRESERVED FORESTS.											
PROME	Cutch ... ... Viss	...	...	3,703,000	1,43,420	...	...	...	...	3,703 000	1,43,420	
	Resin	...	..	6,900	46	...	...	...	...	6,900	46	
	Carried over	...	...	...	1,43,466	...	...	...	...	...	1,43,466	

FORM NO. 55.—*Statement showing Outturn of Minor Forest Produce in the Pegu Circle for 1887-88*—(concluded).

Division.	Description of produce.		PRODUCE REMOVED OR UTILIZED										Remarks.
			By Government agency.		*By purchasers.*		*By free grants.*		*By right-holders.*		*Total.*		
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	Quantity	Value.	Quantity.	Value.	
				Rs.		Rs.		Rs.		Rs.		Rs.	
	Brought forward ...		...	...	...	1,43,466	...	...	...	...	...	1,43,466	
THARRAWADDY.	Cutch	Viss	...	...	353,400	21,560	...	...	...	...	353,400	21,560	
	Wood-oil	,,	...	...	4,450	76	...	...	...	...	4,450	76	
RANGOON	Cutch	Viss	...	...	4,000	120	...	...	...	...	4,000	120	
	Kanyin-oil	,,	...	...	76	38	...	...	...	...	76	38	
TOUNGOO	Kanyin-oil	Viss	...	...	2,122	338	...	...	...	...	2,122	338	
	Thitsi	,,	...	...	2,151	334	...	...	...	...	2,151	334	
	Cutch	,,	...	...	3,500	140	...	...	...	...	3,500	140	
	Pwenyet	,,	...	...	1,600	16	...	...	...	...	1,600	16	
SHWEGYIN ...	Wood-oil	Viss	...	...	600	120	...	...	...	...	600	120	
WESTERN	Cutch	Viss	...	...	31,400	1,060	...	...	...	...	31,400	1,060	
	Wood-oil	,,	...	...	60	6	...	...	...	...	60	6	
	Total ...		...	...	...	1,67,274	...	...	...	...	...	1,67,274	
	GRAND TOTAL PEGU CIRCLE ...		...	...	...	2,01,645	...	...	...	875	...	2,02,520	

ANNUAL FORM No. 56 [PRESCRIBED].—*Account of Timber and other Produce Cut or Collected by Government Agency and brought to Sale Depôts or Sold locally in the Tenasserin and Pegu Circles during 1887-88.*

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE.				
TIMBER.				
Balance at the commencement of the year.				
Attaran Division. Padauk logs ...	245	9,853		
Attaran Division. Ingyin logs ...	40	1,218		
Attaran Division. Pyinma logs ...	7	166		
Attaran Division. Thitka logs ...	6	330		
Attaran Division. Sit logs ...	6	115		
Attaran Division. Yamanè logs ...	14	529		
Attaran Division. Thitya logs ...	7	268		
Attaran Division. Petwun logs ...	18	371		
Attaran Division. Thingan logs ...	108	4,906		
Attaran Division. Padauk planks, tons ...	1	52		
Attaran Division. Teak scantlings, tons ...	10	534		
Attaran Division. Pyinma scantlings, tons	4	219		
Attaran Division. Thitya sleepers ...	8	27		
			474	18,582
East Salween Division. Teak logs and pieces	745	27,343		
East Salween Division. Padauk logs ...	111	3,343		
East Salween Division. Ingyin logs ...	13	635		
East Salween Division. Thitka logs ...	6	217		
East Salween Division. Thitkado logs ...	5	255		
East Salween Division. Pyinma logs ...	12	492		
East Salween Division. Pyinkado posts ...	7	81		
East Salween Division. Thingan boat-hulls ...	3	266		
			902	32,632
West Salween Division. Ingyin logs ...	14	529		
West Salween Division. Pyinma logs ...	29	1,188		
West Salween Division. Thitka logs ...	86	4,573		
West Salween Division. Pyinkado sleepers, large.	140	485		
West Salween Division. Pyinma sleepers, small.	238	975		
			507	7,150
South Tenasserim Division. Thitka logs ...	17	1,128		
South Tenasserim Division. Anan logs ...	8	264		
South Tenasserim Division. Thingan logs ...	55	2,391		
South Tenasserim Division. Kamaung logs ...	49	2,775		
South Tenasserim Division. Padauk logs ...	38	3,451		
South Tenasserim Division. Tagu logs ...	1	20		
South Tenasserim Division. Teak logs ...	6	266		
South Tenasserim Division. Thitshu logs ...	1	56		
South Tenasserim Division. Kazit logs ...	1	21		
South Tenasserim Division. Yamanè logs...	2	115		
South Tenasserim Division. Tharapè logs ...	1	128		
South Tenasserim Division. Karawè logs...	1	25		
South Tenasserim Division. Thayetlè logs ...	1	40		
South Tenasserim Division. Thingan logs... ...	1	24		
South Tenasserim Division. Scantlings, 5½ inches by 2½ inches by 15 inches.	13	26		
South Tenasserim Division. Scantlings, 5 inches by 2½ inches by 10 inches.	20	17		
South Tenasserim Division. Scantlings, 4½ inches by 4 inches.	7	352		
South Tenasserim Division. Sleepers, large ...	1,385	4,877		
South Tenasserim Division. Sleepers, small ...	375	600		
			1,982	16,576
Kado Division. Drift timber ...	5,407	179,163		
Kado Division. Foreign teak ...	74,250	3,801,510		
Kado Division. Foreign woods, other kinds.	65	2,555		
Kado Division. British teak ...	1,382	11,026		
Kado Division. British woods, other kinds.	61	3,460		
			81,165	3,997,714
Received from the Forest in Depôts.				
Teak logs, pieces, and crooks	17,619	511,805		
Padauk logs	23	1,151		
Thitka logs	314	21,321		
Pyinma logs	308	14,458		
Thingan boat-hulls ...	1	272		
Pyinkado logs .	10	510		
Kanzo logs	4	280		
Drit. Pyinkado logs ...	3	93		
Drit. Teak logs ...	2	161		
Sleepers, large ...	565	2,102		
Sleepers, small ...	52,000	69,394		
			70,938	621,613
Carried over ...	...	..	155,968	4,604,267

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE.				
TIMBER.				
Removed by Purchasers from Depôts.				
Teak logs, pieces, and crooks	16,126	455,491		
Padauk logs	160	6,955		
Ingyin logs	13	545		
Thitka logs	405	26,343		
Thingan logs	36	1,590		
Pyinma logs	327	15,298		
Petwun logs	18	371		
Sit logs	6	115		
Yamanè logs	14	529		
Thingan boat-hulls ...	1	272		
Padauk log-ends ...	8	...		
Anan logs	2	87		
Pyinkado logs	10	510		
Drift. Kanzo logs ...	4	286		
Drift. Karawè logs ...	1	25		
Drift. Teak logs	3,260	110,610		
Drift. Thingan logs ...	1	24		
Drift. Thitshu logs ...	1	56		
Drift. Pyinkado logs ...	3	93		
Woods, other kinds ...	127	2,060		
Scantlings 5½ inches by 2½ inches by 15 feet.	13	26		
Scantlings, 4 inches by 4½ inches.	7	352		
Scantlings, 5 inches by 2½ inches by 10 feet.	20	17		
Sleepers, large	1,521	5,272		
Sleepers, small	37,669	50,287		
			60,779	677,154
Logs cleared from Depôts on payment of duty.				
Foreign teak	152,718	7,416,062		
Foreign woods, other kinds	16	800		
British teak	1,584	17,026		
British woods, other kinds	61	3,460		
			154,379	7,437,348
Drift logs delivered to claimants.	4,713	173,488		
			4,713	173,488
Transferred to Attaran division.	417	15,982		
			417	15,982
Sold Locally.				
Pyinma logs	50	1,922		
Pyinma scantlings, tons ...	1	36		
			51	1,958
Converted in Depôt.				
Teak pieces	16	480		
Pyinma logs	10	410		
			26	890
Used, lost, drifted, &c.				
Teak logs	17	476		
Teak scantlings ...	14	736		
Pyinma scantlings ...	8	307		
Thitka logs	7	485		
Pyinma logs	3	405		
Drift. Teak logs ...	4	107		
Drift. Thayetlè logs ...	1	40		
Sleepers, large	28	270		
			89	2,976
Balance at close of the year.				
Attaran Division. Teak logs	1	77		
Attaran Division. Padauk logs	124	5,111		
Attaran Division. Ingyin logs	27	668		
Attaran Division. Pyinma logs ...	27	1,126		
Attaran Division. Thitya logs... ...	7	268		
Attaran Division. Thingan logs ...	106	4,203		
Attaran Division. Padauk planks, tons	1	52		
Attaran Division. Teak scantlings, tons	2	117		
Attaran Division. Pyinma scantlings, tons.	2	141		
Attaran Division. Thitya sleepers ...	8	27		
			305	12,390
Carried over ...	...	...	219,752	8,322,186

ANNUAL FORM NO. 56 [PRESCRIBED].—*Account of Timber and other Produce Cut or Collected by Government Agency, &c.*—(continued).

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE —(concluded).				
Brought forward ...			155,968	4,694,267
Number of Logs entered during 1887-88.				
Foreign teak ...	118,958	5,234,152		
Foreign woods other kinds.	11	550		
British teak	203	6,000		
Number of drift logs brought to depôt ...	9,116	305,555		
			128,287	5,546,257
Received from the Forests and Sold Locally.				
Pyinma logs	50	1,922		
Pyinma scantlings, tons ...	1	36		
			51	1,958
Received by conversion in Depôts.				
Teak scantlings, tons ...	6	319		
Pyinma scantlings, tons ...	6	319		
Padauk log-ends	8	...		
			20	638
Received by transfer from Kado Revenue Division.				
Drift teak logs	417	15,982		
			417	15,982
GRAND TOTAL ...	...	...	284,743	10,259,102
PEGU CIRCLE.				
OPENING BALANCE				
Prome—				
Teak logs	8	336		
Teak drift logs ...	304	11,756		
Teak drift squares ...	9	225		
Teak drift scantlings ...	25	38		
			346	12,355
Tharrawaddy—				
Teak paddy-field logs ...	4,170	146,501		
Teak planks ...	921	...		
Confiscated teak logs ...	5	230		
Confiscated teak scantlings.	9	8		
Confiscated logs, other than teak.	12	420		
			5,117	147,159
Rangoon—				
Teak drift logs ...	6	229		
Drift logs, other than teak	3	105		
			9	334
Toungoo—				
Teak logs	50	2,100		
Thitka logs	46	1,078		
Pyinma logs	36	1,548		
Teak drift logs ...	138	5,182		
			270	10,808
Carried over ...	...	...	5,742	170,656

Particulars.	Number or quantity.	Cubic feet.	Total of each head. Number or quantity.	Total of each head. Cubic feet.
TENASSERIM CIRCLE —(concluded).				
Brought forward ...	...	...	219,752	8,322,186
Balance at close of the year —(concluded).				
East Salween Division. Teak logs and pieces	2,621	98,606		
East Salween Division. Padauk, logs ...	88	2,281		
East Salween Division. Ingyin logs ...	13	635		
East Salween Division. Thitka logs	9	345		
East Salween Division. Thitkado logs ...	5	255		
East Salween Division. Pynkado posts ...	7	81		
East Salween Division. Thingan boat-hulls.	3	266		
			2,746	102,469
West Salween Division. Ingyin logs ...	14	520		
West Salween Division. Thitka logs ...	1	46		
West Salween Division. Pynkado sleepers, large.	140	485		
West Salween Division. Pynkado sleepers, small.	238	275		
			393	1,325
South Tenasserim Division. Thitka logs ...	7	450		
South Tenasserim Division. Anan logs ...	6	177		
South Tenasserim Division. Pyinma logs ...	38	1,000		
South Tenasserim Division. Thingan logs ...	21	908		
South Tenasserim Division. Padauk logs ...	38	3,451		
South Tenasserim Division. Tagu logs ...	1	20		
South Tenasserim Division. Kazit logs ...	1	21		
South Tenasserim Division. Teak logs ...	1	65		
South Tenasserim Division. Yamanè logs ...	2	115		
South Tenasserim Division. Tharapè logs ...	1	128		
South Tenasserim Division. Sleepers, small ...	14,776	10,707		
South Tenasserim Division. Sleepers, large ...	401	1,497		
			15,293	28,484
Kado Division. Drift timber ...	6,009	182,773		
Kado Division. Foreign teak ...	40,490	1,619,600		
Kado Division. Foreign woods, other kinds.	60	2,305		
			46,559	1,804,678
GRAND TOTAL ...	...	...	284,743	10,259,102
PEGU CIRCLE.				
Removed by Purchasers from Depôts.				
Teak logs	28,337	1,198,154		
Confiscated teak logs ...	32	1,344		
Teak sleepers	10	15		
Logs other than teak ...	473	19,303		
Slabs and ends other than teak.	850	...		
Rejected sleepers other than teak.	100	150		
Teak drift logs	568	21,052		
Drift logs other than teak	45	1,710		
			30,921	1,242,424
Sold Locally.				
Teak logs	1,386	62,406		
Teak refuse logs ...	74	3,035		
Teak posts	527	...		
Teak paddy-field logs ...	5,103	154,752		
Teak paddy-field stumps	30	...		
Logs other than teak ...	363	14,883		
Confiscated other than teak.	229	9,389		
Teak drift logs	738	28,815		
Teak drift malum ...	175	6,125		
Confiscated teak drift logs	10	390		
Drift teak squares ...	9	225		
Drift teak scantlings ...	25	38		
Confiscated teak drift planks.	58	...		
Drift logs other than teak	1	38		
Confiscated drift poles ...	6,092	...		
Confiscated drift cutch logs	25	725		
Boat-hulls	2	90		
			14,847	281,601
Carried over ...	...	...	44,708	1,524,025

ANNUAL FORM NO. 56 [PRESCRIBED].—*Account of Timber and other Produce Cut or Collected by Government Agency, &c.*—(concluded).

Particulars	Number or quantity	Cubic feet	Total of each head: Number or quantity	Total of each head: Cubic feet
PEGU CIRCLE—(concluded)				
Brought forward ...	..		5,742	170,056
Shwegyin—				
Teak drift log	60	2,140		
Logs, other than teak	22	770		
			82	2,910
Western—				
Pyinkado logs ...	31	1,123		
Kanyin logs ...	5	215		
In logs	3	129		
Thabyè logs	17	731		
Pyinkado sleepers	1,722	2,701		
Pyinkado slabs and sids	2,755	..		
Teak drift logs ..	121	4,719		
			4,655	9,828
Agency—				
Teak logs ..	24,871	1,044,082		
Logs other than teak	15	651		
Teak sleepers	54	81		
Teak drift logs	69	2,696		
Drift log, other than teak	5	175		
			25,014	1,047,625
Received from Forests by extraction.				
Teak logs ...	20,563	975,892		
Teak refuse logs	3,333	172,736		
Teak paddy field logs .	9,924	155,444		
Confiscated teak logs .	32	1,344		
Logs other than teak	300	14,760		
Confiscated other than teak	229	9,389		
			34,461	1,329,565
Received from Forests and disposed of locally				
Teak logs	3	126		
Teak paddy field logs	5,103	154,752		
Teak paddy-field stumps ..	30			
Teak posts	527			
Logs other than teak .	77	3,157		
Teak drift logs	1	39		
			5,741	158 074
Drift collected in various divisions during the year.				
Teak logs . .	6 823	266,007		
Teak logs malum	249	8,715		
Confiscated teak logs	10	390		
Confiscated teak planks .	58			
Logs other than teak	162	6,156		
Poles other than teak ...	6,022	..		
Confiscated cutch logs	25	725		
Boat-hulls .. .	2	90		
			13,421	282,173
Received into Depôts from Forests				
Teak logs ..	22,631	950 502		
Logs other than teak	639	26,190		
Teak drift logs	1,946	75,894		
			25,216	1,052,595
Collected by Agency.				
Teak logs . .	1,314	51 246		
Drift logs other than teak	8	304		
			1,322	51,550
GRAND TOTAL .			115 054	4,104,970

Particulars	Number or quantity	Cubic feet	Total of each head: Number or quantity	Total of each head: Cubic feet
PEGU CIRCLE—(concluded)				
Brought forward ...	..		44,768	1,524,025
Used, lost, drifted, &c				
Teak logs ...	1	42		
Teak paddy-field logs ..	53	1,674		
Teak planks ..	921			
Teak scantlings ..	9	8		
Drift teak logs ..	50	1,950		
Drift logs other than teak	4	152		
			1,038	3,826
Returned to Claimants				
Drift teak logs ..	8,257	322 023		
Drift logs other than teak	147	5,586		
			8,404	327,609
Transferred to Depôts				
Teak logs .	19,176	655,392		
Teak refuse logs ..	3,259	169,101		
Logs other than teak	2	82		
Drift teak logs .. .	962	33,618		
Drift teak malums .	70	2,450		
			23,369	1,060,643
Closing Balance				
Prome—				
Teak logs	3	126		
Drift teak logs	142	5,538		
Drift teak malum .	4	140		
			149	5,804
Tharrawaddy—				
Teak paddy field logs ..	14,041	300,271		
Confiscated teak logs	5	230		
Confiscated logs other than teak.	12	492		
			14,058	300,993
Shwegyin—				
Kanyin logs ...	2	82		
Drift teak logs .	27	1,107		
Drift logs other than teak.	3	117		
			32	1,306
Western—				
Pyinkado logs ...	259	10,619		
Kanyin logs ..	111	4,551		
Kashot logs ..	2	82		
Thabye logs ...	17	697		
Pyinkado sleepers .	1,632	3,545		
Pyinkado slabs ..	2,400			
Teak drift logs .	97	1,053		
			4,458	19,547
Agency—				
Teak logs	19,243	856,828		
Teak sleepers ..	44	16		
Teak drift logs ..	111	4,329		
			19,398	861,223
GRAND TOTAL			115,654	4,104,976

ANNUAL FORM NO. 56A.—*Account of Timber and other Produce Cut or Collected by Government Agency and brought to Sale Depôts or Sold locally during the year 1887-88.*

Particulars.	Tenasserim Circle.		Pegu Circle.		Total of each Head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Opening balance ...	85,080	4,072,654	35,493	1,231,019	120,523	5,303,673
Received from Forests in Depôts.						
Teak logs, pieces, crooks, &c.	17,619	511,805	22,631	950,502	40,250	1,462,307
Padauk logs	23	1,151				
Thitka logs	314	21,321				
Pyinma logs	308	14,458	639	26,199	1,298	64,197
Thingan boat-hulls	1	272				
Pyinkado logs	10	510				
Kanzo logs	4	286				
Drift pyinkado logs	3	93	...	...	3	93
Drift teak logs	2	161	1,946	75,894	1,948	76,055
Sleepers, large	565	2,162	...	...	565	2,162
Sleepers, small	52,090	69,394	...	...	52,090	69,394
Total ...	70,938	621,613	25,216	1,052,595	96,154	1,674,208
Received from Forests by Extraction.						
Teak logs	...	...	20,583	975,892	20,583	975,892
Teak refuse logs	...	...	3,333	172,736	3,333	172,736
Teak paddy-field logs	...	...	9,924	155,444	9,924	155,444
Confiscated teak logs	...	...	32	1,344	32	1,344
Logs other than teak	...	...	360	14,760	360	14,760
Confiscated logs other than teak ...	...	...	229	9,389	229	9,38
Total ...	...	...	34,461	1,329,565	34,461	1,329,565
Received from Forests and disposed of Locally.						
Teak logs	...	...	3	126	3	126
Teak paddy-field logs	...	...	5,103	154,752	5,103	154,752
Teak stumps	...	...	30	...	30	...
Teak posts	...	...	527	...	527	...
Logs otaer than teak	50	1,922	77	3,157	127	5,079
Logs other than teak scantlings Tons	1	36	...	...	1	36
Teak drift logs	...	...	1	39	1	39
Tota ...	51	1,958	5,741	188,074	5,792	160,032

Particulars.	Tenasserim Circle.		Pegu Circle.		Total of each Head.	
	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.	Number or quantity.	Cubic feet.
Removed from Depôts by Purchasers.						
Teak logs, pieces, crooks, &c.	16,126	455,491	28,337	1,198,154	44,463	1,653,645
Confiscated teak logs	...	...	32	1,344	32	1,344
Teak sleepers	...	...	10	15	10	15
Logs other than teak	1,131	54,722	473	19,393	1,604	74,115
Slabs and ends other than teak ...	...	...	356	...	356	...
Boat-hulls	1	272	...	...	1	272
Log-ends other than teak	8	...	...	...	8	...
Drift teak logs	3,260	110,610	568	21,652	3,828	132,262
Drift other than teak	3	105	45	1,710	48	1,815
Scantlings	40	395	...	...	40	395
Sleepers, large	1,521	5,272	...	...	1,521	5,272
Sleepers, small	37,689	50,287	...	...	37,689	50,287
Rejected sleepers	...	...	100	156	100	156
Total ...	59,779	677,154	29,921	1,242,424	89,700	1,919,578
Disposed of Locally.						
Teak logs	...	...	1,386	62,496	1,386	62,496
Teak refuse logs	...	...	74	3,635	74	3,635
Teak posts	...	...	527	...	527	...
Teak paddy-field logs	...	...	5,103	154,752	5,103	154,752
Teak stumps	...	...	30	...	30	...
Logs other than teak	50	1,922	363	14,883	413	16,805
Scantlings other than teak Tons	1	36	...	...	1	36
Confiscated logs other than teak ...	...	...	229	9,389	229	9,389
Teak drift logs	...	...	738	28,815	738	28,815
Teak drift logs, malum	...	...	175	6,125	175	6,125
Confiscated teak drift logs	...	...	10	390	10	390
Drift teak squares	...	...	9	225	9	225
Teak drift scantlings	...	...	25	38	25	38
Confiscated drift teak planks ...	...	...	58	...	58	...
Drift logs other than teak	...	...	1	38	1	38
Confiscated drift poles	...	...	6,092	...	6,092	...
Confiscated drift cutch logs	...	...	25	725	25	725
Boat-hulls	...	...	2	90	2	90
Total ...	51	1,958	14,847	281,601	14,898	283,559

Received by Conversion in Depôts.							
Teak scantlings ... ... Tons	6	319	...	...	6	319	
Pynma scantlings	6	319	...	...	6	319	
Padauk log-ends	8	...	...	...	8	...	
Total ...	20	638	...	...	20	638	
Number of Logs entered in 1887-88.							
Foreign teak	118,958	5,234,152	...	...	118,958	5,234,152	
Foreign other than teak ...	11	550	...	...	11	550	
British teak	202	6,000	...	...	202	6,000	
Number of drift logs brought to depôt ...	9,116	305,555	...	...	9,116	305,555	
Total ...	128,287	5,546,257	...	...	128,287	5,546,257	
Received by Transfer from Kado Revenue Station.							
Drift teak logs	417	15,982	...	...	417	15,982	
Drift collected in various Divisions.							
Teak logs	...	...	6,823	266,097	6,823	266,097	
Teak logs, malum	...	...	249	8,715	249	8,715	
Teak confiscated	...	...	10	390	10	390	
Teak planks...	...	...	58	...	58	...	
Logs other than teak	...	...	163	6,156	163	6,156	
Poles other than teak...	...	...	6,092	...	6,092	...	
Confiscated cutch	...	...	25	725	25	725	
Boat-hulls	...	...	2	90	2	90	
Total ...	...	...	13,421	282,173	13,421	282,173	
Collected by Agency.							
Teak logs	...	...	1,314	51,246	1,314	51,246	
Drift logs other than teak	...	...	8	304	8	304	
Total ...	...	...	1,322	51,550	1,322	51,550	
Grand Total ...	284,743	10,259,102	115,654	4,104,976	400,397	14,364,078	

Used, Drifted Lost, &c						
Teak logs	17	476	1	42	18	518
Teak scantlings	14	736	9	8	23	744
Logs other than teak ...	18	1,287	...	...	18	1,287
Teak paddy-field logs	...	...	53	1,674	53	1,674
Teak planks	...	...	921	...	921	...
Teak drift logs	4	167	50	1,950	54	2,117
Drift logs other than teak	1	40	4	152	5	192
Sleepers other than teak	28	270	...	...	28	270
Total ...	82	2,976	1,038	3,826	1,120	6,802
Returned to Claimants.						
Drift teak logs	4,713	173,488	8,257	322,023	13,117	501,097
Drift logs other than teak			147	5,586		
Total ...	4,713	173,488	8,404	327,609	13,117	501,097
Transferred to Depôts.						
Teak logs	...	...	19,176	855,392	19,176	855,392
Teak logs, refuse	...	...	3,259	169,101	3,259	169,101
Logs other than teak	...	...	2	82	2	82
Drift teak logs	...	...	662	33,618	662	33,618
Drift teak logs, malum	...	...	70	2,450	70	2,450
Total ...	...	...	23,369	1,060,643	23,369	1,060,643
Transferred to Attaran Division ...	417	15,982	...	...	417	15,982
Number cleared on payment of duty.						
Foreign teak	152,718	7,416,062	...	...	152,718	7,416,062
Foreign other woods	16	800	...	...	16	800
Teak, British	1,584	17,026	...	...	1,584	17,026
Other woods, British	61	3,460	...	...	61	3,460
Total ...	154,379	7,437,348	...	...	154,379	7,437,348
Converted in Depôts.						
Teak pieces	16	480	...	...	16	480
Pyinma logs	10	410	...	...	10	410
Total ...	26	890	...	...	26	890
Balance Foreign teak and other woods.						
Foreign teak	40,490	1,619,600	...	...	40,490	1,619,600
Foreign other woods	60	2,305	...	...	60	2,305
Teak logs	2,022	98,683	19,246	856,954	21,868	955,637
Confiscated teak logs	...	...	5	230	5	230
Teak sleepers	...	...	44	66	44	66
Teak scantlings	2	117	...	...	2	117
Teak paddy-field logs	...	...	14,041	300,271	14,041	300,271
Boat-hulls	3	266	..	...	3	266
Planks, other woods	1	53	...	...	1	53
Logs, other woods	537	23,297	391	16,031	928	39,328
Confiscated logs, other woods ...	...	...	12	492	12	492
Scantlings, other woods	2	141	...	...	2	141
Slabs, other woods	...	...	2,400	...	2,400	...
Sleepers, other woods	15,563	21,991	1,622	2,545	17,185	24,536
Drift teak logs	...	...	307	12,027	307	12,027
Posts other than teak	7	81	...	..	7	81
Drift teak logs, malum	...	...	4	140	4	140
Drift other than teak	...	...	3	117	3	117
Drift timber	6,009	162,773	...	...	6,009	162,773
Total ...	65,296	1,949,306	38,075	1,188,873	103,371	3,138,179
Grand Total ...	284,743	10,259,102	115,654	4,104,976	400,397	14,364,078

FORM NO. 57 [PRESCRIBED].—*Abstract showing the Value of Timber and other Produce at Sale Depôts for the year 1887-88.*

Description of timber and other produce.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet.	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
			Rs.			Rs.	Rs.	Rs.	
Timber.									
Logs, teak	745	27,343	10,430	2,622	98,683	47,208	36,778	.....	
Drift logs, teak	5,413	179,429	38,080	6,010	169,838	60,120	22,031	.....	
Logs (woods, other kinds)	913	39,957	16,341	546	23,579	10,498	.....	5,843	
Sleepers	2,146	6,264	5,531	15,563	21,991	19,259	13,728	.....	
Scantlings	55	1,900	1,008	5	310	171	.....	837	
Foreign teak	74,250	3,801,510	13,35,500	40,490	1,619 600	8,09,800	.....	5,25,700	
Foreign woods (other kinds)	65	2,555	1,300	60	2,305	600	.....	700	
British teak (leased forests)	1,382	11,026	5,528	.....	.....	.....	.....	5,528	
British woods (other kinds leased forests)	61	3,460	488	.....	.....	.....	.....	488	
Total Tenasserim Circle ...	85,030	4,072,744	14,14,215	65,296	1,949,306	9,47,656	.....	4,66,559	
Timber.									
Teak logs	24,929	1,046,518	6,87,225	19 251	857,184	5,30,580	.....	1,56,645	
Teak paddy-field	4,170	146,501	19,073	14,041	300,271	46,000	26,927	.....	
Teak sleepers	54	81	27	44	66	22	.....	5	
Teak planks	921	.....	194	.....	.....	.....	.....	194	
Logs other than teak	153	6,585	1,377	408	16,523	3,579	2,202	...	
Sleepers other than teak	1,722	2,701	1,722	1,622	2,545	1,622	.....	100	
Slabs and ends other than teak	2,756	.....	70	2,400	.....	60	... ..	10	
Teak drift logs	703	26,992	16,872	311	12,167	7,388	.....	9,464	
Teak squares	9	225	216	.....	.....	.....	.....	216	
Teak scantlings	34	46	18	.....	.....	.....	.....	18	
Drift logs other than teak	42	1,470	336	3	117	24	.....	312	
Total Pegu Circle ...	35,493	1,231,019	7,27,130	38,075	1,188,873	5,99,275	.....	1,37,855	

Net difference against the year, Rs. 6,04,414.

FORM NO. 57A.—*Abstract showing the Value of Live and Dead Stock for the year 1887-88.*

Description of live or dead stock.	On hand at commencement of the year.			On hand at close of the year.			Difference in value.		Remarks.
	Number.	Cubic feet	Value.	Number.	Cubic feet.	Value.	In favour of the year.	Against the year.	
			Rs			Rs.	Rs.	Rs.	
Live stock	8	...	8,500	8	...	8,500	...	...	
Buildings	24	...	22,795	25	...	22,906	111	...	
Dead stock	...	...	16,990	...	...	15,761	...	1,229	
Total Tenasserim Circle ...	...	...	48,285	...	...	47,167	...	1,118	
Live stock	33	...	43,300	35	...	46,000	2,700	...	
Buildings	40	...	60,300	41	...	54,630	...	5,670	
Dead stock	...	...	28,760	...	...	29,000	240	...	
Total Pegu Circle ...	...	...	1,32,360	..	..	1,29,630	...	2,730	
GRAND TOTAL LOWER BURMA ..	...	...	1,80,645	...	...	1,76,797	...	3,848	

Net difference against the year, Rs. 3,848.

FORM NO. 58 [PRESCRIBED].—*Summary of Revenue of the different Divisions during 1887-88.*

Budget heads—receipts.	Attaran division.	Kado division.	South Tenasserim division.	Total Tenasserim circle.	Agency.	Rangoon division.	Tharrawaddy division.	Prome division.	Western division.	Toungoo division.	Shwegyin division.	Total Pegu circle.	Grand Total.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
a Timber	3,17,975	2,739	48,452	3,69,166	11,78,423	1,316	28,105	7,911	6,800	28,433	6,568	12,57,556	16,26,722
b Firewood and charcoal	...	...	...	...	...	...	...	...	...	...	...	...	...
c Bamboos	...	...	...	...	...	...	...	...	...	...	...	...	...
d Sandal-wood	...	...	...	...	...	...	...	...	...	...	...	...	...
e Grass and other minor produce	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS—													
a Timber	21,389	1,259	10,728	33,368	2,714	33,879	12,719	34,204	30,641	21,709	8,005	1,43,871	1,77,239
b Firewood and charcoal	109	...	11	120	6,514	367	147	247	263	86	184	7,928	7,928
c Bamboos	...	...	...	...	...	1,936	1,957	34	...	114	...	4,041	4,041
d Grazing and fodder grass	...	...	...	...	...	115	121	...	.	..		236	236
e Other minor produce	186	14	1,508	1,708	...	369	51,440	1,43,486	1,066	867	120	1,97,368	1,99,076
III.—CONFISCATED DRIFT AND WAIF WOOD—	...	82,143	257	82,400	7,453	491	10	9,112	13,655	8,257	9,366	48,344	1,30,744
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—													
a Duty on foreign timber and other forest produce	...	26,506	...	26,506	...	...	...	3,554	...	...	...	3,554	32,060
b Revenue from shared and private forests	...	...	...	...	..	...	...	...	...	...	...	...	...
V.—MISCELLANEOUS—													
a Fines and forfeitures	3,617	3,990	195	8,002	65	63	1,646	2,414	1,123	687	..	5,998	14,000
b Refunds	31	12	60	103	1	2	12	...	..	6	8	29	132
c Other sources	74	20,234	122	20,430	2,749	296	738	840	211	1,260	195	6,289	26,719
Total	3,43,574	1,38,896	61,333	5,43,803	11,97,919	38,854	96,895	2,01,802	53,759	61,419	24,446	16,75,094	22,18,897

J. TAYLOR,
Assistant Comptroller-General (Forests)

FORM NO. 58 [PRESCRIBED].—*Summary of Expenditure of the different Divisions during 1887-88.*

Budget heads.	Attaran division.	Kado revenue station division.	South Tenasserim division.	Total Tenasserim circle.	Government timber depôt and agency office division.	Rangoon division.	Tharrawaddy division.	Prome division.	Western division.	Toungoo division.	Shwegyin division.	Total Pegu circle.	Grand Total.
A.—CONSERVANCY AND WORKS.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—													
a Timber	1,38,482	1,369	42,111	1,81,962	16,104	63,691	1,48,244	18,624	4,507	1,61,153	1,193	4,13,416	5,95,378
b Firewood and charcoal	...	...	...	...	...	...	...	...	...	...	...	...	...
c Bamboos	...	...	...	...	...	...	...	...	...	...	...	...	...
d Sandal-wood	...	...	...	...	...	...	...	...	...	...	...	...	...
e Grass and other minor produce	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS OR PURCHASERS.	379	374	...	753	51	2,716	1,556	1,854	1,649	73	...	7,899	8,652
III.—CONFISCATED, DRIFT, AND WAIF WOOD	...	32,657	62	32,719	897	1,712	...	4,553	10,749	3,218	4,111	25,240	57,959
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—													
a Duty on foreign timber and other forest produce	...	6,566	...	6,566	...	...	...	...	...	...	...	...	6,566
b Revenue from shared and private forests	...	...	...	...	...	...	...	...	...	...	...	...	...
V.—RENT OF LEASED FORESTS, AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT.	...	...	...	...	...	...	...	...	...	...	...	...	...
VI.—LIVE-STOCK, STORES, TOOLS, AND PLANT—													
a Purchase of cattle	...	...	...	...	3,750	...	...	...	...	...	950	4,700	4,700
b Feed and keep of cattle	2,954	...	...	2,954	8,899	707	2,272	696	1,358	888	673	15,463	18,417
c Purchase of stores, tools, and plant	1,226	487	25	1,738	2,169	174	608	251	232	81	73	3,588	5,326
VII.—COMMUNICATIONS AND BUILDINGS—													
a Roads and bridges	...	...	...	...	194	21	...	...	...	6	...	221	221
b Buildings	1,536	125	10	1,671	974	1,444	849	501	70	736	349	4,923	6,594
c Other works	...	...	...	...	61	155	397	29	...	...	...	642	642
VIII.—DEMARCATION, IMPROVEMENT, AND EXTENSION OF FORESTS—													
a Demarcation	75	...	213	288	13	257	109	129	...	...	2	510	798
b Compensation for land and rights	...	...	...	...	...	...	700	...	...	...	...	700	700
c Surveys and working plans	...	...	258	258	1,572	...	2,696	17	...	...	...	4,285	4,543
d Sowing and planting	4,871	...	943	5,814	...	4,182	19,345	1,302	...	591	...	25,420	31,234
e Protection from fire	4,043	...	...	4,043	...	2,555	6,171	746	...	1,485	...	10,957	15,000
f Other works	...	...	75	75	...	...	61	17	...	...	...	78	153
IX.—MISCELLANEOUS—													
a Refunds	...	...	...	...	...	...	35	...	2	...	...	37	37
b Law charges	...	...	...	...	...	...	3	...	49	...	...	52	52
c Other charges	2,107	175	31	2,313	109	27	1,807	275	168	20	8	2,414	4,727
Total A.—Conservancy and Works	1,55,673	41,753	43,728	2,41,154	34,793	77,641	1,84,853	28,864	18,784	1,68,251	7,359	5,20,545	7,61,699
B.—ESTABLISHMENTS.													
I.—SALARIES—													
a Conservators	18,000	...	...	18,000	14,918	...	...	...	...	...	...	14,918	32,918
b Superior officers	16,550	7,179	5,250	28,979	11,710	11,979	8,011	6,166	9,400	8,143	4,472	59,881	88,860
c Subordinate forest and depôt establishments	6,716	6,919	2,551	16,186	9,333	6,527	9,973	5,560	3,202	5,331	3,841	43,767	59,953
d Office establishments	8,688	6,129	1,604	16,421	17,074	4,032	3,910	1,878	1,440	2,485	1,377	32,196	48,617
e Deputation and special allowances	...	...	...	...	...	...	...	...	...	...	...	...	...
II.—TRAVELLING ALLOWANCES—													
a Conservators	992	...	...	992	1,439	90	...	...	...	...	...	1,529	2,521
b Superior officers	2,171	1,488	1,041	4,700	1,368	2,145	3,786	1,995	2,358	1,977	749	13,778	18,478
c Subordinate forest and depôt establishments	902	439	164	1,505	1,180	1,031	1,875	808	892	564	676	7,116	8,621
d Office establishments	182	...	80	262	179	370	477	211	279	54	50	1,620	1,882
III.—CONTINGENCIES—													
a Stationery	...	...	...	...	48	4	16	10	...	...	...	78	78
b Carriage of tents and records	...	...	...	...	22	86	22	8	...	7	...	145	145
c Rents, rates, and taxes	45	30	...	75	3,003	76	193	137	38	23	4	3,474	3,549
d Pay of police guards	...	...	...	...	...	...	...	...	...	...	...	...	...
e Official postage	140	117	20	277	357	80	128	129	107	46	25	872	1,149
f Sundries	665	88	70	823	1,244	390	881	513	221	95	57	3,401	4,224
Total B.—Establishments	55,051	22,389	10,780	88,220	61,875	26,870	29,272	17,475	17,907	18,125	11,251	1,82,775	2,70,995
GRAND TOTAL OF EXPENDITURE	2,10,724	64,142	54,508	3,29,374	96,668	1,04,511	2,14,125	46,339	36,691	1,86,376	18,610	7,03,320	10,32,694

J. TAYLOR,
Assistant Comptroller-General (Forests).

Dr. ANNUAL FORM NO. 59—[PRESCRIBED.]—*Account-current for the year 1887-88.* *Cr.*

PEGU CIRCLE.				PEGU CIRCLE.			
	Rs. A. P.	Rs. A. P.		Rs. A. P.	Rs. A. P.
To Cash balance	.....	2,450 10 11	By Expenditure as per Annual Summary Form No. 85	.. ..	7,03,319 4 0
„ *VIII.—Assessed Taxes—*					
Income-tax deductions from salaries	.....	13 8 8	By Deposits	....	
„ Revenue as per Annual Summary Form No. 58	.....	16,75,094 2 10			
To Service Funds—			*By Forest Cash Remittances (local)—*		
Civil Fund, ordinary, Bengal	.....		Remittances to treasuries	15,40,232 12 5	
Civil Fund, additional, Bengal	.....		Inter-divisional transfers	59,388 9 7	
Military Fund, Bengal	.....				15,99,621 6 0
Military Fund, Madras	.. ..		By Advances recoverable	... ..	2,49,818 0 8
Military Orphan Fund, Bengal	.. ..		By Suspense	... ..	1 4 0
Uncovenanted Service Family Pension Fund, Bengal ...	1,107 10 0				
General Family Pension Fund	.....		*By Account-current (other Governments)—*		
Hindu Family Annuity Fund	.....		Remittances to the Government of Madras...	.....	1,16,518 10 1
		1,107 10 0			
To Deposits	.....		*By Inter-departmental Transfers—*		
To Forest Cash Remittances (Local)—			Public Works Department, State Railways	1,164 4 9	
Forest cheques drawn	7,14,701 2 1		Public Works Department, other branches	440 0 0	
Inter-divisional transfers	38,096 13 0				
		7,52,797 15 1	Military Department	.....	
To Advances recoverable	.....	2,56,441 7 5	*By Civil Department—*	Rs. A. P.	
„ Suspense	.....	83 10 0	Jails	21,959 15 0	
			Miscellaneous	241 2 6	
To Account-current (other Governments)—				22,201 1 6	
Remittances from Government of India	6,955 0 8		Telegraph Department	300 0 0	
Remittances from Government of Bombay	150 0 0				
		7,105 0 8			24,105 6 3
To Inter-departmental Transfers—			By Cash balance	.....	2,653 14 5
Public Works Department, other branches...	34 0 0				
Military Department, Bengal	627 4 10				
Military Department, Madras	140 10 0				
		943 11 10			
To Civil Department—	Rs. A. P.				
Jail	....				
Mathematical Instrument Department ...	106 13 0				
Miscellaneous, Law and Justice ...	35 0 0				
		141 13 0			
Total ...	.....	26,96,037 13 5	Total ...	.....	26,96,037 13 5

J. TAYLOR,
Assistant Comptroller-General (Forests).

Dr. ANNUAL FORM NO. 59—*Account-current for the year 1887-88.* *Cr.*

TENASSERIM CIRCLE	Rs. A. P.	Rs. A. P.	TENASSERIM CIRCLE.	Rs. A. P.	Rs. A. P.
To Cash balance	.....	1,028 0 9	By Expenditure as per Annual Summary Form No. 58	....	3,29,373 14 7
„ *VIII.—Assessed Taxes—*			*By Forest Cash Remittances (Local)—*		
Revenue as per Annual Summary Form No 55	.....	5,43,808 5 8	Remittances to treasuries	5,19,117 1 11	.....
To Service Funds—			Inter divisional transfers	134 13 0	5,19,251 14 11
Military Fund, Madras	537 9 0		By Advances recoverable	....	87,353 9 0
Uncovenanted Service Family Pension Fund, Bengal ..	1,509 9 0		„ Suspense	....	4 0 0
		2,047 2 0	*By Account-current (other Governments)—*		
To Forest Cash Remittances (Local)—			Remittances to the Government of India	... ..	2,851 10 0
Forest cheques drawn	3,22,903 8 6		*By Inter-departmental Transfers—*		
Inter-divisional transfers	79 11 0		Military Department, Madras	9,511 14 8	
		1,22,983 3 6	Military Department, Bombay	7,071 4 10	
To Advances recoverable	.	91,037 12 3			16,583 3 6
„ Suspense	.....	4 0 0	*To Civil Department—*		
To Civil Department—			Jails	.....	5,571 4 3
Jail	..	483 2 1	Cash balance	.....	397 2 0
Total .	....	9,61,386 10 3	Total ..	... ..	9,61,386 10 3

J. TAYLOR,
Assistant Comptroller-General (Forests).

Dr. ANNUAL FORM NO. 59A.—*Account-current for the year 1887-88.* *Cr.*

	Tenasserim circle.	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
To Cash balance	1,028 0 9	2,450 10 11	3,478 11 8
To VIII—Assessed Taxes—			
Income-tax deductions from salaries	.....	13 8 8	13 8 8
Revenue as per Annual Summary Form No. 58. ..	5,43,803 5 8	16,75,094 2 10	22,18,897 8 6
To Service Funds—			
Civil Fund, ordinary, Bengal	.....	.....	.....
Civil Fund, additional, Bengal	.....	.....	.....
Military Fund, Bengal	.....	.....	.....
Military Fund, Madras	537 9 0	.....	537 9 0
Military Orphan Fund, Bengal	.....	.....	.....
Uncovenanted Service Family Pension Fund, Bengal,	1,509 9 0	1,107 10 0	2,617 3 0
General Family Pension Fund	.....	.....	.....
Hindu Family Annuity Fund	.....	.....	.....
To Deposits	.....	.....	.....
To Forest Cash Remittances (Local)—			
Forest cheques drawn	3,22,903 8 6	7,14,701 2 1	10,37,604 10 7
Inter-divisional transfers	79 11 0	38,096 13 0	38,176 8 0
Advances recoverable	91,037 12 3	2,56,441 7 5	3,47,479 3 8
Suspense	4 0 0	83 10 0	87 10 0
To Account-current (other Governments)—			
Remittances from Government of India	.....	6,955 0 8	6,955 0 8
Remittances from Government of Bombay ...	.....	150 0 0	150 0 0
To Inter-departmental Transfers—			
Public Works Department, other branches... ...	.....	34 0 0	34 0 0
Military Department, Bengal	.....	627 4 10	627 4 10
Military Department, Madras	.....	140 10 0	140 10 0
To Civil Department—			
Jail	483 2 1	.....	483 2 1
Mathematical Instrument Department	.....	106 13 0	106 13 0
Miscellaneous, Law and Justice	.....	35 0 0	35 0 0
Total ...	9,61,386 10 3	26,96,037 13 5	36,57,424 7 8

	Tenasserim circle.	Pegu circle.	Total.
	Rs. A. P.	Rs. A. P.	Rs. A. P.
By Expenditure as per Annual Summary Form No. 58 ...	3,29,373 14 7	7,03,319 4 0	10,32,693 2 7
Deposits	.....	.....	.....
By Forest Cash Remittances (Local)—			
Remittances to treasuries	5,19,117 1 11	15,40,232 12 5	20,59,349 14 4
Inter-divisional transfers	134 13 0	59,388 9 7	59,523 6 7
Advances recoverable	87,353 9 0	2,49,818 0 8	3,37,171 9 8
Suspense	4 0 0	1 4 0	5 4 0
By Account-current (other Governments)—			
Remittances to the Government of India	2,851 10 0	.....	2,851 10 0
Remittances to the Government of Madras	.....	1,16,518 10 1	1,16,518 10 1
By Inter-departmental Transfers—			
Public Works Department, State Railways	.....	1,164 4 9	1,164 4 9
Public Works Department, other branches	.....	440 0 0	440 0 0
Military Department, Madras	9,511 14 8	.....	9,511 14 8
Military Department, Bombay	7,071 4 10	.....	7,071 4 10
Civil Department, Jails	5,571 4 3	21,959 15 0	27,531 3 3
Civil Department, Miscellaneous	.....	241 2 6	241 2 6
Telegraph Department	.....	300 0 0	300 0 0
Cash balance ...	397 2 0	2,653 14 5	3,051 0 5
Total ...	9,61,386 10 3	26,96,037 13 5	36,57,424 7 8

ANNUAL FORM NO 60 [PRESCRIBED].—*Revenue received and Outstandings on account of Revenue during 1887-88.*

Division.	Particulars.	Outstandings at commencement of year.	Value of sales and other revenue during year.	Total.	Amount realised during year.	Balance due to the department at end of year.	Remarks.
		Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
ATTARAN	Timber and other produce, &c.	564 0 0	3,46,465 9 6	3,47,029 9 6	3,43,574 9 6	3,455 0 0	
KADO	Drift timber and other produce	.....	1,38,895 11 0	1,38,895 11 0	1,38,895 11 0	.....	
SOUTH TENASSERIM ...	Timber and other produce, &c.	.....	61,333 1 2	61,333 1 2	61,333 1 2	.....	
	Total Tenasserim Circle ...	564 0 0	5,46,694 5 8	5,47,258 5 8	5,43,803 5 8	3,455 0 0	
PROME	Timber and other produce, &c.	.....	2,01,801 13 7	2,01,801 13 7	2,01,801 13 7	.....	
THARRAWADDY ...	Ditto	.....	96,894 11 8	96,894 11 8	96,894 11 8	.....	
RANGOON	Ditto	.....	38,853 15 9	38,853 15 9	38,853 15 9	.....	
TOUNGOO	Ditto	.....	61,419 4 9	61,419 4 9	61,419 4 9	.....	
SHWEGYIN	Ditto	.....	24,446 4 5	24,446 4 5	24,446 4 5	.....	
WESTERN	Ditto	.....	53,759 7 0	53,759 7 0	53,759 7 0	.....	
AGENCY	Ditto	69,765 0 0	11,89,625 1 2	12,59,390 1 8	11,97,918 9 8	61,471 8 0	
	Total Pegu Circle ...	69,765 0 0	16,66,800 10 4	17,36,565 10 10	16,75,694 2 10	61,471 8 0	
	GRAND TOTAL LOWER BURMA ...	70,329 0 6	22,13,495 0 0	22,83,824 0 6	22,18,897 8 6	64,926 8 0	

ANNUAL FORM NO. 61 [PRESCRIBED].—*Statement of Outstandings and Liabilities on account of Contractors and Disbursers for 1887-88.*

Division.	Department debtor.			Department creditor.			Balance due.		Remarks.
	At commencement of year.	Recoveries in cash and value of supplies and work done during the year.	At close of year.	At commencement of year.	Payments made during year.	At close of year.	To department (outstandings).	By department (liabilities).	
	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Attaran	.....	76,709 10 3	76,709 10 3	39,672 1 0	73,149 9 0	1,12,821 10 0	36,111 15 9	.....	
Kado	.....	5,088 2 0	5,088 2 0	1,599 6 0	5,084 0 0	6,683 6 0	1,595 4 0	.....	
South Tenasserim	.....	9,240 0 0	9,240 0 0	180 0 0	9,120 0 0	9,300 0 0	60 0 0	.....	
Total Tenasserim Circle ...	.....	91,037 12 3	91,037 12 3	41,451 7 0	87,353 9 0	1,28,805 0 0	37,767 3 9	.....	
Government Timber Depôt and Agency Office ...	.....	4,224 8 0	4,224 8 0	885 15 10	4,363 15 0	5,249 14 10	1,025 6 10	.....	
Rangoon	450 0 0	26,521 12 8	26,971 12 8	1,414 13 7	27,912 15 5	29,327 13 0	2,356 0 4	.....	
Tharrawaddy	.....	1,57,733 3 8	1,57,733 3 8	26,172 15 9	1,59,856 7 6	1,86,029 7 3	28,296 3 7	.....	
Prome	.....	37,184 5 9	37,184 5 9	8,792 0 6	32,611 14 9	41,403 15 3	4,219 9 6	.....	
Western	.....	13,948 15	13,948 15 1	8,661 4 2	8,741 0 0	17,402 4 2	3,453 5 1	.....	
Toungoo	.....	16,528 10 3	16,528 10 3	969 11 0	15,957 12 0	16,947 7 0	418 12 9	.....	
Shwegyin	.....	300 0 0	300 0 0	.....	374 0 0	374 0 0	74 0 0	.....	
Total Pegu Circle ...	450 0 0	2,56,441 7 5	2,56,891 7 5	46,916 12 10	2,49,818 0 8	2,96,734 13 6	39,843 6 1	.....	
GRAND TOTAL LOWER BURMA ...	450 0 0	3,47,479 3 8	3,47,929 3 8	88,368 3 10	3,37,171 9 8	4,25,539 13 6	77,610 9 10	.....	

CALCUTTA:
The 1st June 1888.

J. TAYLOR,
Assistant Comptroller-General (Forests).

ANNUAL FORM NO. 62 [PRESCRIBED].—*Statement showing the Financial Results in the Tenasserim and Pegu Circles for 1887-88.*

Division.		Timber and other produce removed from the forests by Government agency.		Other revenue.		Formation, protection, and improvement of forests.	Total.		Remarks.
		Receipts.	Charges.	Receipts.	Charges.	Charges.	Receipts.	Charges.	
		Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	Rs.	
Tenasserim	Attaran	53,321	34,021	17,277	8,484	9,816	70,598	52,321	
	East Salween	1,82,819	80,319	5,584	5,008	10,443	1,88,403	95,770	
	West Salween	81,835	49,521	2,738	3,269	9,843	84,573	62,633	
	Kado	2,739	1,369	1,36,157	62,773	...	1,38,896	64,142	
	South Tenasserim	48,452	47,518	12,881	2,791	4,199	61,333	54,508	
	Total Tenasserim	3,69,166	2,12,748	1,74,637	82,325	34,301	5,43,803	3,29,374	
Pegu	Prome	1,03,707	39,866	1,84,783	12,524	12,886	2,88,490	65,276	
	Tharrawaddy	5,50,896	1,80,056	68,786	17,467	44,999	6,19,682	2,42,532	
	Rangoon	2,25,729	88,734	36,957	15,238	19,519	2,62,686	1,23,491	
	Toungoo	3,77,333	1,86,894	24,728	5,846	12,582	4,02,061	2,05,322	
	Shwegyin	16,585	14,724	8,515	5,243	5,246	25,100	25,213	
	Western	21,106	21,557	33,472	9,580	7,931	54,578	39,068	
	Agency	10,451	2,418	12,046	...	...	22,497	2,418	
	Total Pegu	13,05,807	5,34,259	3,69,287	65,898	1,03,163	16,75,094	7,03,320	
	Grand Total Lower Burma	16,74,973	7,47,007	5,43,924	1,48,223	1,37,464	22,18,897	10,32,694	

APPENDIX A.

Statement showing the cost of Feed of Elephants of the Forest Department for the official year 1887-88 as compared with that of the Commissariat Department for the same period.

Division.	Number of elephants at commencement of the year.	Casualties during the year.	Number of elephants at close of the year.	Cost of feed.	Cost of keep, including gear, &c.	Cost of medicine.	Total expenditure for the year.	Average monthly cost per animal of the Forest Department.	Average monthly cost per animal of the Commissariat Department.	Amount paid by officers for carriage elephants.	Value of labour in cash receipts and work performed.	Remarks.
				Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	
Attaran	5 *	...	5	1,022 5 0	1,248 0 0	13 0 0	2,283 5 0				1,889 0 0	* Includes a calf.
East Salween	2	...	2	*Nil.*	307 0 0	8 0 0	315 0 0	34 10 0	43 9 8	.....	272 0 0	
West Salween	1	...	1	.....	312 0 0	.....	312 0 0				360 0 0	
Total Tenasserim ...	8	...	8	1,022 5 0	1,867 0 0	21 0 0	2,910 5 0		.... .	.....	2,521 0 0	
Prome	2	...	2	.....	636 0 3	29 12 0	665 12 3				958 0 0	
Tharrawaddy	8 *	1	11	16 12 0	2,214 7 3	40 6 9	2,271 10 0				6,880 0 0	* Includes a calf.
Rangoon	2	..	2	40 8 0	666 6 3	. ..	706 14 3				957 0 0	
Toungoo	3	...	1	.....	887 14 7	16 8 0	904 6 7	36 13 7	41 9 5	.	1,718 0 0	
Shwegyin	2	...	2	.....	667 12 3	6 12 0	674 8 3				251 0 0	
Western	4	...	4	6 0 0	1,343 15 0	6 0 0	1,355 15 0				2,721 0 0	
Agency	12	1	13	3,985 5 11	4,688 1 4	225 15 3	8,899 6 6				23,600 0 0	
Total Pegu	33	2	35	4,048 9 11	11,104 8 11	325 6 0	15,478 8 10	. . .	.....	.....	37,085 0 0	
GRAND TOTAL LOWER BURMA .	41	2	43	5,070 14 11	12,971 8 11	346 6 0	16,388 13 10	. ...	... .	... .	39,606 0 0	

APPENDIX B.

LOWER BURMA, TENASSERIM AND PEGU CIRCLES.

List of Buildings of which the Cost exceeds Rs. 200 and for Occupation of which no Rent is paid.

Division.	No.	Name of building.	Station.	Remarks.
Attaran	1	Forest office	Moulmein.	
	1	Elephant-shed		
	1	Paddy-shed		
	1	Rest-house	Natchaung.	
	1	Guard-house	Nantè.	
	4	Guard-houses	Moulmein.	
East Salween	1	Bungalow	Kawkareik.	
	1	Rest-house	Gyaing on the Haungdraw.	
	1	Guard house	Gyaing.	
South Tenasserim	1	Office	Mergui.	
	1	Guard-house	Tavoy.	
Kado	1	Guard-house	Martaban.	
	1	Guard-house	Moulmein ...	Mopun.
	3	Office and two out-houses ...	Kado.	
	1	Lascar's house		
	1	Upper guard-house ...		
	1	Lower guard-house ...		
	1	Coal-shed	Battery Point.	
	1	Bungalow	Shwegun.	
		(a)—On which no rent is paid.		
Prome ...	3	Rest-houses	Kadinngazin, Tindaw, and Paunglè.	
Tharrawaddy	1	Forest office	Tharrawaddy.	
	1	Forest bungalow	Paunglè.	
	6	Rest-houses	We, Seywa. Kaunglaung-daung, Kwingyi, Themè, and Yetho.	Seywa rest-house since burnt by dacoits
Rangoon	1	Forest bungalow	Pegu.	
	3	Revenue stations ...	Tawletò, Hlegu, and Pegu.	
	2	Rest-houses	Palòn and Kinbadi.	
Toungoo	1	Forest office	Toungoo.	
	6	Rest-houses	Tabetkwè, Zibyubin, Banbwèbin, Minye, Pathichaung, and Pyunchaung.	
Shwegyin	1	Rest-house	Myitkyo.	
	1	Depòt Gaung's quarters ...		
Agency and Depòt	1	Officer's quarters	Kemmendine and Rangoon.	
	1	Overseer's house ...		
	6	Guard-houses		
	1	Mahout's quarters		
	1	Elephant-shed		
	1	Seasoning-shed		
		(b)—On which rent is paid.		
Prome ...	1	Forest office	Prome.	
Tharrawaddy ...	1	First class bungalow ...	Tharrawaddy.	
Toungoo ...	1	Ditto ...	Toungoo.	
Shwegyin ...	1	Forest officer's quarters ...	Shwegyin.	

APPENDIX C.

Statement showing the Export of Timber and other Forest Produce from the Port of Rangoon during the official year 1887-88 (Private and Government).

Articles and countries to which exported.		RANGOON.	
		Quantities.	Value.
WOOD—			Rs.
Teak			
To United Kingdom	C. tons.	6,351	5,80,110
„ Germany, Bremen	„	5	550
„ Egypt, Port Said	„	1,137	1,05,550
„ Ceylon	„	7,405	5,10,000
„ Straits Settlements	„	70	8,764
„ Bengal, Calcutta	„	6,190	5,51,913
„ Bengal, other ports	„	62	5,434
„ Bombay, Bombay	„	17,668	11,23,810
„ Madras, Madras	„	9,144	5,95,044
„ Madras, other ports	„	1,657	1,60,747
„ Provincial ports	„	693	57,279
„ Kattywar, Jamnagar	„	15	900
Total	...	52,417	36,99,610
Other timber—			
To Bengal, Calcutta	Tons	281	17,500
„ Bengal, other ports	„	3	108
„ Provincial ports	„	8	500
„ Kattywar, Jamnagar	„	70	1,650
Total	...	362	19,758
Sandal-wood—			
To Straits Settlements	...	.....	15
„ Provincial ports	...	.....	665
Total	...	.....	680
Sleepers—			
To Bengal, Calcutta	Cwt.	32,624	99,977
„ Madras, other ports	„	3,420	10,260
Total	...	36,044	1,10,237
Teak Railway Keys—			
To United Kingdom	Cwt.	.....	.....
„ Bengal, Calcutta	„	10,505	21,480
„ Bombay, Bombay	„	250	500
„ Madras, Madras	„	4,690	14,068
„ Provincial ports	„	1,448	5,353
Total	...	16,083	41,401
Manufactures of—			
To United Kingdom	.....		190
„ Ceylon	.....		40,790
„ Straits Settlements	.....		3,677
„ Bengal, Calcutta	.....		1,080
„ Bengal, other ports	.....		3,582
„ Madras, Madras	.....		8,777
„ Madras, other ports	.....		20,517
„ Provincial ports	.....		25,086
„ Pondicherry	.....		23,624
Total	...	.....	1,36,223
GUMS AND RESINS—			
Cutch and Gambier—			
To United Kingdom	Cwt.	111,077	16,87,294
„ France Havre	„	1,440	21,610
„ France, Marseilles	„	600	9,600
„ Holland	„	100	1,500
„ Italy, Genoa	„	1,500	23,500
„ Egypt, Port Said	„	38,317	6,17,567
„ Ceylon	„	1,200	26,264
„ China, Hongkong	„	201	3,015
„ Straits Settlement	„	19,498	2,98,113
„ Bengal, Calcutta	„	152,146	26,00,225
„ Bengal, other ports	„	34	847
„ Bombay, Bombay	„	28,949	4,51,035
„ Madras, Madras	„	3,205	65,382
„ Madras, other ports	„	2,492	52,354
„ Provincial ports	„	344	6,958
„ Pondicherry	„	8	158
Total	...	361,715	88,66,417

APPENDIX C.

Statement showing the Exports of Timber and other Forest Produce from the Port of Rangoon during the official year 1887-88 (Private and Government)—(concluded).

Articles and countires to which exported.		RANGOON.	
		Quantities.	Value.
			Rs.
LAC—			
Stick—			
To Straits Settlements	Cwt.	296	5,484
„ Bengal, Calcutta	„	278	3,464
„ Madras, Madras	„	2,070	35,304
„ Madras, other ports	„	482	7,750
„ Provincial ports	„	97	1,673
Total ...		3,192	53,774
OILS—			
Wood—			
To United Kingdom	Galls.	50	100
„ Bengal, Calcutta	„	2,449	1,485
„ Madras, Madras	„	14,008	12,323
„ Madras, other ports	„	2,311	2,420
„ Provincial ports	„	8	24
Total ...		18,826	16,302

APPENDIX C (*a*).

Statement showing the Imports of Timber and other Forest Produce into the Port of Rangoon during the official year 1887-88 (Private and Government).

Articles and countries from which imported.		RANGOON.	
		Quantities.	Value.
WOOD—			
Teak—			
From Provincial ...	C. tons.	5,895	5,28,075
Other timber—			
From United Kingdom	Tons.	16	1,736
„ Straits Settlements	„	139	7,296
„ Bengal, Calcutta	„	20	650
„ Bengal, other ports	„	243	7,661
„ Provincial ports ...	„	464	18,535
Total ...		882	35,870
Firewood—			
From Siam	Tons.	177	2,360
„ Straits Settlements	„	166	1,625
„ Provincial ports	„	169	940
Total ...		512	4,934
Sandal-wood—			
From Straits Settlements	.....		969
„ Bengal, Calcutta	.....		462
„ Bombay, Bombay	.....		21,667
„ Madras, Madras	.....		5,850
„ Madras, other ports	.....		4
„ Provincial ports	.....		651
Total ...	.....		29,573
Wooden sleepers—			
From Provincial ports ...	Cwt.	1,130	2,140
Manufactures of wood—			
From United Kingdom	.....		25,829
„ Germany, Bremerhaven	.....		8
„ Germany, Hamburg	.....		250
„ Ceylon ...	.....		64
„ Straits Settlements ...	.....		79,130
„ Bengal, Calcutta ...	.....		51,592
„ Bengal, other ports	.....		1,034
„ Bombay, Bombay	.....		3,514
„ Madras, Madras ...	.....		286
„ Madras, other ports	.....		152
„ Provincial ports ...	.....		94,877
Total ...	.....		2,56,726
GUMS—			
Cutch—			
From Straits Settlements	Cwt.	42	638
„ Bengal, Calcutta	„	35	730
Total ...		77	1,368
LAC—			
Stick—			
From Straits Settlements	Cwt.	40	400
„ Bengal, Calcutta	„	379	4,625
Total ...		419	5,025
OIL—			
Wood—			
From Straits Settlements	Galls.	807	1,373
„ Provincial ports ...	„	23,406	11,454
Total ...		24,213	12,727

APPENDIX C (1).

Statement showing the Exports of Teak Timber from Moulmein during the year 1887-88.

Articles and countries to which exported.	Quantity.	Value.
		Rs.
United Kingdom	13,206	13,15,317
Italy, Spezia	794	71,451
Italy, Venice	298	20,789
Spain, Gibraltar	1,409	1,04,821
Cape Colony, Cape Town	418	27,290
Egypt, Port Said	4,330	4,32,878
Mauritius	101	10,109
Ceylon	577	40,725
Straits Settlements	21	2,961
Bengal, Calcutta	19,506	18,15,001
Bengal, other ports	467	29,500
Bombay, Bombay	57,663	39,51,532
Sind, Karachi	168	11,740
Madras, Madras	4,546	2,60,959
Madras, other ports	5,322	2,82,459
Provincial ports	6,080	5,22,127
Karikal	3	145
Pondicherry	1,453	70,990
Total ...	1,16,507	79,54,812

APPENDIX C (2a).

Statement showing the Exports of Shingles, Sleepers, Railway Keys, and Woods of other kinds from Moulmein, Tavoy, and Mergui during 1887-88.

Articles.	Whither exported.		Moulmein.		Tavoy.		Mergui.	
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
				Rs.		Rs.		Rs.
Other timber	Bengal, Calcutta	Tons.	403	23,036	...	...	...	...
	Bengal, other ports ...	"	52	3,006	...	...	...	...
	Bombay, Bombay	"	78	7,417	...	...	...	...
	Sind, Karachi	"	20	644	...	...	...	...
	Madras, Madras	"	101	9,511	...	...	...	...
	Madras, other ports ...	"	173	3,842	...	...	...	...
	Provincial and other ports ...	"	400	14,808	917	34,684	2	90
Wooden sleepers...	Bengal, Calcutta	Cwt.	1,044	5,730	...	...	...	...
Teak railway keys	United Kingdom	"	1,127	1,691	...	...	...	...
	Bengal, Calcutta	"	2,268	5,187	...	...	...	...
	Bombay, Bombay	"	6,238	10,508	...	...	...	...
	Provincial ports	"	48	150	...	...	...	...
Teak shingles, ventilators, staves, &c.	France, Bordeaux	...	...	270	...	...	...	...
	Malta	...	...	712	...	...	...	...
	Egypt, Port Said	...	...	4,818	...	...	...	...
	Mauritius	...	...	9,193	...	...	...	...
	Ceylon	...	...	13,864	...	...	...	...
	Straits Settlements ...	...	...	15,000	...	...	...	...
	Bengal, Calcutta	...	...	94,776	...	...	...	...
	Bengal, other ports ...	...	...	930	...	...	...	...
	Bombay, Bombay	...	...	660	...	...	...	...
	Madras, Madras	...	...	10	...	...	...	...
	Madras, other ports ...	...	...	1,791	...	...	...	...
	Provincial ports	...	...	96,113	...	...	...	...
	Pondicherry	...	...	1,374	...	...	...	...

APPENDIX C (2b).

Statement showing the Exports of Boat-hulls and other Timber from the Port of Tavoy during 1887-88.

Articles.	Whither exported.		Tavoy		Remarks.
			Quantity.	Value.	
				Rs.	
Boat-hulls ...	Provincial ports	No.	47	43,250	
Other woods ...	Ditto	Tons	917	34,684	
	Total ...		...	77,934	

APPENDIX C (3).

Statement showing the Exports of Minor Forest Produce from the Ports of Mergui, Tavoy, and Moulmein during 1887-88.

Articles.	Whither exported.		Moulmein.		Tavoy.		Mergui.	
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
				Rs.		Rs.		Rs.
Gums and resins ...	Madras, other ports	Cwt.	1	10	...	...	...	...
Stick-lac	Provincial ports ...	,,	2	40	...	...	...	..
Wood-oil ...	Bombay, Bombay ...	Galls.	120	60	...	...	...	.
	Madras, other ports ...	,,	38	35	...	...	...	...
	Provincial ports ...	,,	24	150	...	...	Viss 55,470	9,394
	Pondicherry ...	,,	600	330	...	...	...	...
Bark of trees for tanning	Provincial ports ...	Cwt.	...	...	6,636	1,616	...	...
Ôndôn bark	Ditto ...	,,	...	...	3,120	6,362	...	...
Sandal-wood	Ditto ...	,,		120	8	46	Viss 3,800	290
Firewood	Ditto ...	No.	...	...	...	...	3,450	50
Cardamom	Ditto ...	lbs.	...	...	70,900	20,180	13,510	4,575
Dammer torches ...	Ditto ...	No.	...	...	2,000	30	850,235	22,372
Kanyin fruits ...	Ditto ...	Bkts.	...	...	2,350	1,872	...	...
Chesnuts (thitkyathi) ...	Ditto ...	,,	...	...	520	554	...	...
Orchids ...	Ditto ...	,,	...	...	3	5	...	...
Marians (pickled) ...	Ditto ...	Jars.	...	...	32	75	...	...
Akyaw wood	Ditto ...	Viss.	...	...	...	...	1,241	9,821
Pyu bark	Ditto ...	,,	...	...	...	...	81,650	1,514
Rattans	Ditto ...	No.	...	...	...	...	7,560,750	27,537
Honey	Ditto ...	Viss.	...	...	...	...	3,780	2,071
Bees-wax	Ditto ...	,,	...	...	...	...	260	740
Karawè leaves ...	Ditto ...	,,	...	...	...	...	5,290	263
Fibres	Ditto ...	,,	...	...	...	...	15,780	1,256
Redwood	Ditto ...	,,	...	...	...	...	24,370	781
Dammer	Ditto ...	,,	...	...	...	...	500	75

APPENDIX C (4).

Statement showing the Imports of Timber and other Forest Produce during the year 1887-88 into the Ports of Mergui, Tavoy, and Moulmein.

Articles.	Whence imported.		Moulmein.		Tavoy.		Mergui.	
			Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
				Rs.		Rs.		Rs.
Teak timber ...	Provincial ports ...	Tons	...	...	3	147	4	154
Teak shingles ...	Ditto ...	No.	...	...	16,500	300	...	...
Pyinkado ...	Ditto ...	...	...	...	...	...	8	360
Firewood ...	Ditto ...	Tons	...	...	88	276	...	...
Wood-oil ...	Ditto ...	Galls.	...	...	846	326	...	...
Tanning bark ...	Ditto ...	Cwt.			49	20	...	...
Fibre for cordage ...	Ditto ...		...	...	387	1,278	...	...

APPENDIX D.

TENASSERIM CIRCLE.

Statement of Teak and other Trees Girdled during season 1887-88.

Name and number of section.	By whom girdled.	Name of revising officer.	Forest district.	Locality.	Teak.	Trees counted by revising officer.	Remarks.
Block I. of East Salween Division.	Mr. T. A Hauxwell, Deputy Conservator of Forests.	Mr. T. A. Hauxwell, Deputy Conservator of Forests.	Gawlè Reserve, Upper Thaungyin.	On the north bank of the Uhu chaung and west of Payghakyi chaung.	181	181	
				East of Payghakyi chaung	28	28	
				West of Luku chaung	138	138	
				Between Luku and Pyukalu	82	82	
				On Pyukalu	101	101	
				Between Pyukalu and Kanaikpyo... ...	119	119	
				Sources of Luku chaung	55	55	
				Kanaikpyo and Htikpoktaw	60	60	
				West of Mawchaungwa	50	50	
				Htilaplo	58	58	
			Outside reserve ...	South of Onkôk chaung	69	69	
				Total East Salween Division...	941	941	
Block IV. of West Salween Division.	Ti Du, Girdling Writer.	Maung Shwe Ka, Forest-Ranger.	Outside reserves in Upper Dôndami Valley.	Letayachaungbya	13		
				Between the Kananmaw and Law chaungs.	15		
				Between Mosaw village and Somelaw chaung, west.	11		
				Between Kanu village and Tayaikchaungbya.	33		
				Nampamo chaung	1		
				West of Papadè hill	1		
				West of Kyèthaungsôk	5		
				West of Maunglo chaung near the hillock.	1		
				West of Dôndami chaung	49		
				Between west bank of Kyethaungsôk and Pyinmabin village.	2		
				Pinuthawa forest	19		
				Punobatta forest	13		
				Bank of Tipado chaung	1		
				High road to Tipado village	1		
				Mawchaungbya	2		
				Pyinmabin chaung	11		
				Gwakeko forest	3		
				Total West Salween Division ...	181		
				GRAND TOTAL ...	1,122		

APPENDIX D.

PEGU CIRCLE.

Statement of Teak Trees Girdled during season 1887-88.

Division.	Girdling officer.	Revising officer	Range.	District.	Locality.	Number of teak trees.	Remarks.
Prome.	Maung Chit Su, Ranger.	Mr. G. Q. Corbett, Assistant Conservator of Forests.	Nawin ..	North Nawin (unreserved forests). Middle Nawin (unreserved forests).	Kop chaung, both banks	114	
					Between the Sôn chaung and Ngakônma chaung ...	224	
					On the west bank of the Sôn chaung	134	
					On the east bank of the Chaungzauk chaung ...	271	
					On the west bank of the Kyauktalôn chaung ...	73	
					On the Thayetmyaung	184	
					Total Nawin ...	1,000	
	Maung Pè, Ranger.	Mr. E. P. Popert, Conservator of Forests.	Myadè ...	Chaunggaunggyi (unreserved forests). Padè (unreserved forests).	Myaungtha chaung, both banks	102	
					Kyauktaga chaung, both banks	158	
					Yèlaung chaung, west bank	240	
					Padè chaung, both banks	72	
					Kop chaung, both banks	26	
					Alè chaung, both banks	408	
					Total Myadè ...	1,006	
					Total Prome Division ...	2,006	

Statement of Teak Trees Girdled during season 1887-88—(continued).

Division.	Girdling officer.	Revising officer.	Range.	District	Locality.	Number of teak trees.	Remarks.
Tharrawaddy.	Mr. G. F. R. Blackwell, Assistant Conservator of Forests and Divisional Officer.	.....	Thônzè ...	Mókka' Working Circle.	Compartment No. 19	45	
					Compartment No. 20	46	
					Compartment No. 21	92	
					Compartment No. 22	42	
					Compartment No. 43 (part)	275	
					Total Mókka ...	500	
	Mr. G. F. R. Blackwell. Assistant Conservator of Forests, and Forest-Ranger Maung Wè.	.....	Thônzè ...	Kadin-Bilin Working Circle.	Compartment No. 56	445	
					Compartment No. 57	496	
					Compartment No. 58	561	
					Compartment No. 60	498	
					Total Kadin-Bilin ...	2,000	
	Mr. G. F. R. Blackwell, Assistant Conservator of Forests, Forest-Ranger Maung Wè and Divisional Officer.	.....	Thônzè ...	Thônzè Working Circle.	Compartment No. 2	2	
					Compartment No. 3	186	
					Compartment No. 4	175	
					Compartment No. 5	210	
					Compartment No. 6	281	
					Compartment No. 7	412	
					Compartment No. 8 (part)	171	
					Compartment No. 12	59	
					Compartment No. 15	203	
					Compartment No. 16 (part)	216	
					Total Thônzè ...	2,005	
	Mr. G. F. R. Blackwell, Assistant Conservator of Forests, and Forest-Ranger Maung Wè.	.....	Thônzè ...	Kôn-Bilin Working Circle.	Compartment No. 27	500	
					Total Tharrawaddy Division ...	5,005	In reserves.
Rangoon.	.....	Captain C. T. Bingham, Deputy Conservator of Forests.	Pegu ...	Pegu	Upper Zamayi reserve, Karen areas, Nos. I and II, Themè chaung forests.	500	
					Total Rangoon Division ...	500	In reserves.
Toungoo.	Maung Yaing, Ranger.	Mr. F. W. Thellusson, Deputy Conservator of Forests.	Thagaya...	Swa forest ...	Between Swa chaung and the boundary of Swa reserve.	24	
					Between Shwèka chaung and Thapanmyaung ...	60	
					Between Swa chaung and Baungtôk chaung ...	51	
					Between Baungtôk and Sinyomyaung	120	
					Between Sinyounyaung and Uyinmu chaung ...	95	
					East of Uyinmu chaung and south of Sinewa village.	190	
					South of Swaminlan and between Public Works Department and railway roads.	140	
					South of Swa chaung and between railway road and Sittang river.	920	
					Between Letlan chaung and Kyauk-o chaungs ...	37	
					Between Kyauk-o and Sine chaungs	220	
					Between Saik and Lada-u chaungs	127	
					Between Lada-u chaung and Swa chaung ...	42	
					Between Sine and Thamasè chaungs	5	
					Between Thamasè chaung and Chaungzauk ...	29	
					Total ...	2,000	
	Maung Yaing, Ranger.	Mr. F. W. Thellusson, Deputy Conservator of Forests.	Thagaya	Binbyè forest ...	Kyundine teak forest	218	
					Wakinthaung teak forest	55	
					East of Tada-u, north of Thaingkyaung and up to south of Thitpyubin chaung.	24	
					Between Thitpyubin chaung and Thaingkyaung ...	50	
					Between road to Wayônlè from Binbyè village and Kyauk chaung.	62	
					Between Kyauk and Binbyè chaung and up to boundary of reserve.	90	
					Between north of Binbyè chaung and boundary of reserve.	142	
					South of Binbyè chaung and between Atetgyi village and Tinwamyaung.	270	
					West of Atetgyi village and between Binbyè chaung and Ngazinyaing.	69	
					Total ...	1,000	
					Carried over ...	3,000	

Statement of Teak Trees Girdled during season 1887-88—(concluded).

Division	Girdling officer.	Revising officer.	Range.	District.	Locality.	Number of teak trees.	Remarks.
					Brought forward ..	3,000	
Toungoo—(*concluded*).	Maung Yaing, Ranger.	Mr F. W. Thellusson, Deputy Conservator of Forests.	Thagaya	Gwèthè forests ...	North of Gwèthè chaung and between Sittang river and Kyain village.	10	
					North of Gwèthè chaung and between Kyain and Gwèthè village.	43	
					Between Kyauk and Gwèthè chaungs	25	
					North of Gwèthè chaung and up to Ayodaung ...	98	
					South of Gwèthè chaung and between Ywethaik chaung and Sibine chaung.	39	
					South of Gwèthè chaung and between Ywe-Sibine and Lakawthè chaungs.	103	
					South of Gwèthè chaung and between Lakawthè and Taukyin chaungs.	124	
					South of Taukyin chaung and up to west of Gwethè village.	70	
					South of Gwèthè chaung and between Gwèthè chaung and Kyaikpadi and road to Gwèthè village.	29	
					Total ...	550	
	Maung Yaing, Ranger.	Mr. F. W. Thellusson, Deputy Conservator of Forests.	Bônmadi	Kunôn forests ...	Swedawya chaung, Lettet, Shwepôn to forest	446	
					Between Wuyôn and Ingyi	83	
					Between ridge of Ingyi, Ma-ubin, and Tôngyauk chaung.	176	
					Swedawya chaung, Lettet, and between Tôngyauk chaung and Myènichaung.	211	
					Swedawya chaung, Lettet, and between Myèni and Pwutmwè chaung	84	
	Maung Hmin, Ranger.	Mr. F. W. Thellusson, Deputy Conservator of Forests.	Bônmadi	Kunôn forests ...	Between Thitnatha and Mayan chaungs ..	400	
					Between Mayan and Yabôk chaungs	400	
					Between Yabôk and Kyauk-o chaungs	200	
					Between Kyauk-o and Tinwa chaungs... .	150	
					Between Tinwa and Pyinthila chaungs... ...	250	
					Between Pyinthila and Tamin-o chaungs ...	300	
					Between Tamin-o and Wetpôk chaungs ...	300	
					Total ...	3,000	
					Total Toungoo Division ...	6,550	
Shwegyin.	.....	Mr. C. H. Hobart-Hampden.	.....	Shwegyin ...	On the right bank of the Baingda chaung between the Kyauksarit and the Ye-aukmyaung feeders.	1,500	
Western.	Maung Tun Hla.	Mr. C. W. Allan, Probationer, Sub Assistant Conservator.	Myanaung	Henzada ...	Banks of the Padashin stream	141	
	Maung Tun Hla.	Mr. H. B. Ward, Deputy Conservator.	Do. ...	Do. ...	Banks of the Mamya stream and of its feeders the Paisu and Kyaukkwè.	808	
					Total Western Division ...	1,089	
					Total Pegu Circle ...	16,600	

APPENDIX E.

Statement of Outturn of Foreign Timber for the five years 1883-84 to 1887-88.

Name of foreign States.	1883-84.						1884-85.						1885-86.					
	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	Full-sized.	Tons.	Under-sized.	Tons.	Stems.	Tons.	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.
Karenni	76,362	87,529	2,177	2,100	4,879	2,927	86,099	76,186	10,167	6,200	7,135	3,600	69,413	65,860	2,357	1,415	4,002	3,000
Kynetaung	14,537	16,661	526	510	8,295	4,977	9,822	8,455	861	516	3,766	1,506	9,271	8,577	826	500	1,388	1,000
Mainglôngyi	3,814	5,348	2	2	960	688	15,752	15,000	197	105	2,660	1,454	10,730	10,608	281	130	1,502	990
Thaungyin	27,932	32,158	1,944	1,900	16,365	9,819	24,460	21,771	9,010	5,400	21,496	8,780	10,533	9,768	2,177	1,400	5,182	2,600
Dagwin	3,725	4,662	10	8	203	121	5,541	6,000	4,496	2,970	326	160	3,885	4,067	1,199	1,000	72	50
Zimmè	...	...	...	...	...	...	...	...	...	...	...	...	3,469	3,145	713	500	1,106	650
Mclaungthun	...	...	...	...	...	...	...	...	...	...	...	..	1,444	1,473	109	80	443	280
Mônpè	...	...	...	...	...	...	...	...	...	...	...	...	8	6	...	...	...	...
Upper Thaungyin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
GRAND TOTAL ...	126,370	146,348	4,659	4,520	30,722	18,532	141,774	127,412	24,731	15,191	35,323	15,500	108,753	103,594	7,662	5,035	13,695	8,570

Statement of Outturn of Foreign Timber for the five years 1883-84 to 1887-88—(concluded).

Name of foreign States.	1886-87.						1887-88.						Remarks.
	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	Full-sized.	Tons.	Under-sized.	Tons.	Stem.	Tons.	Comparison of percentage of increase or decrease as compared with percentage of increase or decrease for the previous year.
Karenni	54,161	54,000	7,826	6,200	2,022	1,213	50,073	45,600	4,163	2,900	1,220	710	
Kynetaung	5,209	4,800	763	600	822	493	4,286	4,200	388	271	384	200	
Mainglôngyi	9,462	9,300	1,334	1,300	580	380	12,508	12,500	1,781	1,400	253	126	
Thaungyin	16,717	16,000	17,507	13,000	1,347	800	15,242	14,500	10,607	7,500	2,931	1,500	
Dagwin	1,454	1,500	457	400	19	12	1,829	1,800	1,563	940	29	16	
Zimmè	11,165	10,100	1,183	900	1,210	605	7,274	7,277	1,009	620	903	460	
Melaungthun	18,795	17,600	1,696	1,400	204	125	2,330	2,050	161	100	24	13	
Mônpè	...	...	...	...	...	...	...	...	...	...	...	..	
Upper Thaungyin... ...	220	200	37	20	...	...	...	...	...	...	...	...	
GRAND TOTAL ...	117,183	113,500	30,803	23,820	6,204	3,628	93,542	87,927	19,672	13,731	5,744	3,025	

		1886-87.		1887-88.	
		Increase per cent.	Decrease per cent.	Increase per cent.	Decrease per cent.
Karenni ...	Full-sized logs ...	...	22	...	8
	Under-sized logs ...	239	...	...	47
	Stem	...	49	...	40
Kynetaung ...	Full-sized logs ...	...	44	...	18
	Under-sized logs ...	...	8	...	49
	Stem	...	41	...	53
Mainglôngyi ...	Full-sized logs ...	...	12	32	...
	Under-sized logs ...	375	...	34	...
	Stem	...	61	...	56
Thaungyin ...	Full-sized logs ...	59	...	...	9
	Under-sized logs ...	704	...	...	39
	Stem	...	74	118	...
Dagwin ...	Full-sized logs ...	...	63	26	...
	Under-sized logs ...	...	62	242	...
	Stem	...	74	53	...
Zimmè ...	Full-sized logs ...	222	...	...	35
	Under-sized logs ...	66	...	...	15
	Stem	9	...	...	25
Melaungthun ...	Full-sized logs ...	1,201	...	...	88
	Under-sized logs ...	1,456	...	...	91
	Stem	...	54	...	88
Mônpè ...	These forests not having been worked this year hence no comparison of increase or decrease can be arrived at.				
Upper Thaungyin.					

APPENDIX F.

Statement showing the Exports of Timber and other Forest Produce from Moulmein during the year 1887-88.

Articles and countries to which exported.		Quantity.	Value.
			Rs
WOOD—			
Teak—			
To United Kingdom	Tons	13,206	13,15,317
,, Italy, Spezia	,,	794	71,451
,, Italy, Venice	,,	298	26,789
,, Spain, Gibraltar	,,	1,469	1,64,821
,, Cape Colony, Cape Town	,,	413	27,299
,, Egypt, Port Said	,,	4,330	4,32,878
,, Mauritius	,,	101	10,100
,, Ceylon	,,	577	40,725
,, Straits Settlements	,,	21	2,961
,, Bengal, Calcutta	,,	19,596	13,15,001
,, Bengal, other ports	,,	467	29,500
,, Bombay, Bombay	,,	57,663	33,51,532
,, Sind, Karachi	,,	168	11,740
,, Madras, Madras	,,	4,546	2,69,959
,, Madras, other ports	,,	5,922	2,82,459
,, Provincial ports	,,	6,080	5,22,127
,, Karikal	,,	3	145
,, Pondicherry	,,	1,453	79,260
	Total ...	116,507	79,54,812
Other timber—			
To Bengal, Calcutta	Tons	403	23,986
,, Bengal, other ports	,,	52	3,066
,, Bombay, Bombay	,,	78	7,417
,, Sind, Karachi	,,	20	644
,, Madras, Madras	,,	101	9,511
,, Madras, other ports	,,	178	3,842
,, Provincial ports	,,	400	14,808
	Total ...	1,227	63,224
Wooden sleepers—			
To Bengal, Calcutta	Cwt.	1,044	5,730
Teak Railway keys—			
To United Kingdom	Cwt.	1,127	1,691
,, Bengal, Calcutta	,,	2,268	5,187
,, Bombay, Bombay	,,	6,238	10,508
,, Provincial ports	,,	48	150
	Total ...	9,681	
Manufactures of teak shingles, &c.—			
To France, Bordeaux	.....		270
,, Malta	.....		712
,, Egypt, Port Said	.....		4,318
,, Mauritius	.....		9,193
,, Ceylon	.....		13,864
,, Straits Settlements	.....		15,000
,, Bengal, Calcutta	.....		24,776
,, Bengal, other ports	.....		930
,, Bombay, Bombay	.....		660
,, Madras, Madras	.....		10
,, Madras, other ports	.....		1,701
,, Provincial ports	.....		26,113
,, Pondicherry	.....		1,374
	Total ...	.....	2,39,011
GUMS AND RESINS—			
Cutch and gambier—			
To Madras, other ports	Cwt.	1	10
LAC—			
Stick—			
To Provincial ports	Cwt.	2	40
OILS—			
Wood—			
To Bombay, Bombay	Galls.	120	60
,, Madras, other ports	,,	38	35
,, Provincial ports	,,	24	150
,, Pondicherry	,,	600	330
	Total ...	782	575
Sandal-wood—			
To Provincial ports	Cwt.	.....	130
	Total ...	.....	.....
	GRAND TOTAL ...	.....	82,31,068

APPENDIX G.

Summary of Revenue of the different Divisions of the Tenasserim Circle during 1887-88.

Budget head—receipts.	Attaran.	Kado.	East Salween.	West Salween.	Tavoy.	Mergui.	Total.
I.—Timber and other Produce removed from the Forests by Government Agency—	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
a Timber ...	53,321 4 0	2,738 8 0	1,82,819 6 0	81,834 10 0	48,452 4 4	.....	3,69,166 0 4
b Firewood and charcoal	.....	.....	.....	.....	.....	.....	.....
c Bamboos...	.....	.....	.....	.....	.....	.....	.....
d Sandal-wood	.....	.....	.....	.....	.....	.....	.....
e Grass and other minor produce	.....	.....	.....	.....	.....	.....	.....
II.—Timber and other Produce removed from the Forests by Consumers and Purchasers—							
a Timber ...	13,377 3 0	1,257 11 0	5,449 1 0	2,555 12 6	8,111 15 0	2,616 8 5	33,368 2 11
b Firewood and charcoal	98 8 0	.....	.....	11 0 0	.....	11 0 0	120 8 0
c Bamboos	.....	.....	.....	.....	.....	.....	.....
d Grazing and fodder grass	.....	.....	.....	.....	.....	.....	.....
e Other minor produce	186 0 0	14 0 0	.....	.....	664 0 0	844 0 0	1,708 0 0
III.—Confiscated Drift and Waif Wood	.....	82,143 2 0	.....	.....	26 9 5	230 0 0	82,399 11 5
IV.—Revenue from Forests not managed by Government—							
a Duty on foreign timber and other forest produce	.....	28,506 0 0	.....	.....	.....	.....	28,506 0 0
b Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—Miscellaneous—							
a Fines and forfeitures	3,573 12 6	3,990 0 0	70 0 0	171 0 0	178 12 0	16 0 0	8,001 8 6
b Refunds	11 0 0	12 6 0	20 0 0	.....	60 0 0	.....	103 6 0
c Other sources	29 0 0	20,234 0 0	45 1 0	.....	122 0 0	.....	20,430 1 0
Total Receipts	70,596 11 0	1,38,895 11 0	1,88,403 8 0	84,572 6 6	57,615 8 9	3,717 8 5	5,43,803 5 8

APPENDIX G.

Summary of Expenditure of the different Divisions of the Tenasserim Circle during 1887-88.

Budget heads.	Attaran.	Kado.	East Salween.	West Salween.	Tavoy.	Mergui.	Total.
A.—CONSERVANCY AND WORKS.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.
I.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY GOVERNMENT AGENCY—							
a Timber	22,224 2 7	1,369 4 0	71,598 12 3	44,558 12 3	42,111 2 6	.....	1,81,962 1 7
b Firewood and charcoal	.....	.....	.....	.....	.....	.....	.....
c Bamboos	.....	.....	.....	.....	.....	.....	.....
d Sandal-wood	.....	.....	.....	.....	.....	.....	.....
e Grass and other produce	.....	.....	.....	.....	.....	.....	.....
II.—TIMBER AND OTHER PRODUCE REMOVED FROM THE FORESTS BY CONSUMERS AND PURCHASERS	231 8 0	373 15 0	.....	147 4 10	.....	.....	752 11 10
III.—CONFISCATED DRIFT AND WAIF WOOD	.....	32,656 15 3	.....	.....	.....	62 4 0	32,719 3 3
IV.—REVENUE FROM FORESTS NOT MANAGED BY GOVERNMENT—							
a Duty on foreign timber and other forest produce	.....	6,565 12 2	.....	.....	.....	.....	6,565 12 2
b Revenue from shared and private forests	.....	.....	.....	.....	.....	.....	.....
V.—RENT OF LEASED FORESTS AND PAYMENTS TO SHAREHOLDERS IN FORESTS MANAGED BY GOVERNMENT	.....	.....	.....	.....	.....	.....	.....
VI.—LIVE-STOCK, STORES, TOOLS AND PLANT—							
a Purchase of cattle	.....	.....	.....	.....	.....	.....	.....
b Feed and keep of cattle	1,120 14 8	.....	1,000 13 1	831 15 4	.....	.....	2,953 11 1
c Stores, tools, and plant	451 12 1	486 13 0	419 10 6	354 5 6	23 8 0	1 8 0	1,737 9 1
VII.—COMMUNICATIONS AND BUILDINGS—							
a Roads and bridges	.....	.....	.....	.....	.....	.....	.....
b Buildings	333 5 6	125 0 0	625 12 9	576 10 3	10 1 3	.....	1,670 13 9
c Other works	.....	.....	.....	.....	.....	.....	.....
VIII.—DEMARCATION, IMPROVEMENTS, AND EXTENSION OF FORESTS—							
a Demarcation	53 15 8	.....	21 10 0	.....	142 15 6	69 15 0	288 8 2
b Compensation for land and rights	.....	.....	.....	.....	.....	.....	.....
c Surveys and working plans	.....	.....	.....	.....	257 10 9	.....	257 10 9
d Plantations	343 7 6	.....	1,337 8 6	3,190 3 0	.....	943 6 0	5,814 9 0
e Protection from fire	1,035 15 10	.....	1,721 1 2	1,286 0 0	.....	.....	4,043 1 0
f Other works	.....	.....	.....	.....	65 10 8	8 14 0	74 8 8
IX.—MISCELLANEOUS—							
a Refunds	.....	.....	.....	.....	.....	.....	.....
b Law charges	.....	.....	.....	.....	.....	.....	.....
c Other charges	2,013 13 10	175 8 0	50 4 1	43 4 1	26 10 0	3 15 0	2,313 7 0
Total A.—Conservancy and Works	27,808 15 8	41,753 3 5	76,775 8 4	51,088 7 3	42,637 10 8	1,089 14 0	2,41,153 11 4
B.—ESTABLISHMENTS.							
I.—SALARIES—							
a Conservators	5,142 15 0	.....	6,428 7 0	6,428 10 0	.....	.....	18,000 0 0
b Superior officers	10,800 0 0	7,179 5 8	5,750 0 0	.....	3,937 8 0	1,312 8 0	28,979 5 8
c Subordinate forest and depôt establishments	2,281 5 8	6,918 12 1	2,612 4 7	1,822 9 0	1,507 0 0	1,044 0 0	16,186 0 4
d Office establishments	4,086 0 8	6,129 0 0	2,390 15 3	2,211 0 1	1,293 0 0	401 0 0	16,421 0 0
e Deputation and special allowances	.....	.....	.....	.....	.....	.....	.....
II.—TRAVELLING ALLOWANCES—							
a Conservators	283 9 8	.....	354 5 2	354 5 2	.....	.....	992 4 0
b Superior officers	1,406 4 0	1,488 0 0	764 10 0	.....	648 5 6	392 12 6	4,700 0 0
c Subordinate forest and depôt establishments	136 0 0	438 12 0	354 0 0	412 6 0	164 0 0	.....	1,505 2 0
d Office establishments	60 8 6	.....	59 5 9	62 5 9	49 10 0	30 2 0	262 0 0
III.—CONTINGENCIES—							
a Stationery	.....	.....	.....	.....	.....	.....	.....
b Carriage of tents and records	.....	.....	.....	.....	.....	.....	.....
c Rents, rates, and taxes	12 13 11	29 10 6	15 13 1	15 14 0	.....	.....	74 3 6
d Pay of police guards	.....	.....	.....	.....	.....	.....	.....
e Official postage	47 2 0	117 8 0	47 4 11	45 7 7	15 6 8	4 12 4	277 9 6
f Sundries	254 15 11	87 10 0	217 11 0	192 3 4	64 15 9	5 2 3	822 10 3
Total B.—Establishments	24,511 11 4	22,388 11 3	18,904 12 9	11,544 12 11	7,589 13 11	3,190 5 1	88,220 3 3
GRAND TOTAL EXPENDITURE	52,320 11 0	64,141 14 8	95,770 5 1	62,633 4 2	50,227 8 7	4,280 3 1	3,29,373 14 7

APPENDIX H.

TENASSERIM CIRCLE.

Number of Logs Imported by the Principal Thitgaungs during the year 1887-88.

No	Names.	Number of logs.
1	Ko Taw A ...	19,162
2	Ko Tha Hnyin	5,006
3	ho Lu Galè	4,164
4	Maung Pan	3,799
5	Ko Kyè	3,585
6	Ko Mo	2,181
7	Ko Pon	2,173
8	Maung Kè	2,152
9	Maung Po O	1,736
10	Maung Bo Ni	1,595
11	Mi J Williams	1,532
12	Maung Shwe Lwè	1,525
13	Po Nè Auk	1,492
14	Maung San Du	1,460
15	kyaungtaga Khino	1,207
16	Maung Bwa	1,030

APPENDIX I.

TENASSERIM CIRCLE.

List showing the Names of the Principal Exporters of Teak from the 1st April 1887 to the 31st March 1888.

Name of firm.	Tons	Remarks
Messrs The Bombay Burma Trading Corporation, Limited	24,949	There were in all 121,745 tons of timber shipped from this port by Government, petty shippers, Chettios, &c.
Babu Bullub Dass	10,645	
Messrs T. D Findlay, Bodeker and Co.	10,333	
Babu Bhugwan Dass	9,478	
Messrs Ferdinand, Foucar and Co.	8,022	
Messrs W Strang, Steel and Co.	6,236	
Memraj	5,030	
H A L Baladina	4,084	
Messrs. Visram, Ebrahim and Co.	3,893	
Messrs. Aga Syed, Abdul Hussain and Co.	3,605	
Messrs. Abdul Majid Brothers and Co.	3,314	
Messrs Haji Mahomed Esuf	2,773	
A B Crisp	2,342	
Balmukund	1,781	
Abdula Cassim	1,598	
Messrs Limousin and Co.	1,256	
Messrs Mirza Abdul and Co.	1,022	

APPENDIX J.

TENASSERIM CIRCLE.

Statement showing the Sale Prices of Teak Timber at Home during each month of the official year 1887-88.

Month		Sale price of timber per ton (average). From	Sale price of timber per ton (average). To	Freight per ton	Remarks.
		£ s. d.	£ s. d.		
April	1887	8 10 0	9 0 0	Freight steady during the year from 37s 6d. to 40s. United Kingdom, and 40s to 45s Continent.	
May	,,	8 10 0	9 0 0		
June	,,	8 10 0	9 0 0		
July	,,	9 0 0	9 10 0		
August	,,	9 0 0	9 10 0		
September	,,	9 0 0	9 10 0		
October	,,	9 10 0	10 0 0		
November	,,	10 0 0	10 10 0		
December	,,	10 0 0	10 10 0		
January	1888	10 10 0	11 0 0		
February	,,	11 0 0	11 10 0		
March	,,	10 10 0	10 10 0		
April	,,	10 10 0	10 10 0		

APPENDIX J(1).

TENASSERIM CIRCLE.

Statement showing the Market Rate of Teak Timber in the Indian Market for the year 1887-88.

Month.		Bombay.				Calcutta.				Remarks.
		Squares.		Scantlings.		Squares.		Scantlings.		
		From	To	From	To	From	To	From	To	
		Rs. A.	Rs.	Rs. A.	Rs.	Rs.	Rs.	Rs.	Rs.	
April	1887	57 8	83	70 0	85	67	85	55	90	
May	,,	58 0	85	70 0	85	65	85	54	90	
June	,,	60 8	85	72 8	90	62	75	52	90	
July	,,	52 0	79	60 0	85	65	70	61	90	
August	,,	51 0	85	57 0	78	65	80	60	90	
September	,,	50 0	80	60 0	79	69	85	67	90	
October	,,	53 0	83	64 0	80	60	75	53	90	
November	,,	60 0	85	55 0	76	60	85	58	90	
December	,,	54 0	82	66 0	86	67	85	55	90	
January	1888	65 0	85	59 0	85	60	89	60	90	
February	,,	63 0	87	60 0	92	66	85	60	90	
March	,,	76 0	81	65 0	90	90	85	82	90	

APPENDIX K.

PEGU CIRCLE.

Selling Rates in the Home Market for 1887-88—Churchill and Sims.

		£ s. d.		£ s. d.
April	1887	9 0 0	to	14 0 0
May	,,	8 0 0	to	13 0 0
June	,,	8 0 0	to	13 0 0
July	,,	8 0 0	to	13 0 0
August	,,	8 0 0	to	13 0 0
September	,,	8 0 0	to	13 0 0
October	,,	8 0 0	to	13 0 0
November	,,	8 0 0	to	13 0 0
December	,,	8 0 0	to	13 0 0
January	1888	8 0 0	to	13 0 0
February	,,	8 0 0	to	13 0 0
March	,,	8 0 0	to	13 0 0

APPENDIX L.

PEGU CIRCLE.

Annual Return of Jungle Woods and Bamboos passed at the Government Timber Depôt and Pasundaung Revenue Station from 1st April 1887 to 31st March 1888.

Description of timber.	Logs.	Total.	Remarks.		
				Rs. A. P.	
In	455		Sold in the market at	11 0 11	per log.
Pyinkado	183		Ditto	10 12 2	
Thayet	920		Ditto	7 1 5	
Taukyan	64		Ditto	5 0 0	
Bambwè	9		Ditto	8 0 0	
Firewood	196	1,832	Ditto	1 6	
Minywa	971,200		Ditto	188 0 4 to 283 13 8	per 1,000.
Kyathaungwa	583,430		Ditto	380 3 4 to 495 5 0	
Tinwa	106,800		Ditto	302 1 4 to 418 3 8	
Talagawa	17,400	1,738,830	Ditto	312 8 0 to 462 8 0	
GRAND TOTAL	...	1,740,662			

APPENDIX M.

PEGU CIRCLE.

Averages of Sales at the Rangoon Central Depôt, 1887-88.

		Rs. A. P.	
April	1887	35 2 1	per ton.
May	,,	35 0 11	
June	,,	35 0 0	
July	,,	33 11 5	
August	,,	35 3 8	
September	,,	39 0 11	
October	,,	38 7 6	
November	,,	37 15 2	
December	,,	39 12 10	
January	1888	38 7 4	
February	,,	47 5 3	
March	,,	43 6 0	

APPENDIX N.

Division.	Name of reserve.	Year of formation.	Planted with	Area in acres.	Cost.	Cost per acre.	Remarks.
					Rs. A. P.	Rs. A. P.	
PROME ...	Chaungzauk ...	1879 ...	Teak ...	27	0 0 0	0 3 7	
		1880 ...	do. ...	66	16 0 0	0 3 10	
		1881 ...	do ...	40	8 0 0	0 3 2	
		1882 ...	do. ...	50	10 0 0	0 3 2	
		1883 ..	Teak and cutch ...	170	40 0 0	0 3 9	
		1884 ...	ditto ...	108	23 0 0	0 3 5	
		1884 ...	Teak ...	16	4 0 0	0 4 0	
		1885 ...	do. ...	40	170 0 0	4 4 0	Twice weeded.
		1885 ...	Teak and cutch...	85	361 0 0	4 4 0	Ditto.
		1886 ...	ditto ...	139	600 0 0	4 0 5	Ditto.
			Total Prome ...	741	1,198 0 0	1 9 10	
	Bwet	1876 ...	Teak ...	50	72 0 0	1 7 0	
	Kyaukkyidaung ...	1883 ...	Cutch ...	33	68 4 0	2 10 9	
	Ditto	1885 ...	Teak and cutch...	109	290 0 0	2 10 7	
	Gwèdaukkwin	1883 ...	Cutch ...	91	153 8 0	1 11 0	
	Ditto	1885 ...	Teak and cutch...	66	160 0 0	2 6 9	
			Total Shwèlè range ...	349	763 12 0	2 3 0	
	Lower Payagyi ...	1886 ...	Teak ...	24	46 4 6	1 14 10	
	Gwedauksan	1876 ...	do. ...	8	19 8 0	2 7 0	
	Ditto	1880 ...	do. ...	15	47 0 0	3 2 1	
	Ditto	1883 ...	do. ...	17	61 8 0	3 9 10	
	Bawbin	1876 ...	do. ...	30	50 0 0	1 15 5	
	Do.	1880 ...	do. ...	28	87 0 0	3 1 9	
	Do.	1885 ...	do. ...	8	24 2 6	3 0 4	
	Do.	1886 ...	do. ...	46	94 14 0	2 1 0	
	Kangyi	1880 ...	do. ...	58	114 4 0	1 15 6	
	Do.	1883 ...	do. ...	44	55 12 0	1 4 3	
	Do.	1885 ...	do. ...	21	64 9 6	3 1 3	
	Do.	1886 ...	do. ...	20	67 0 0	3 5 7	
	Myodwin	1885 ...	do. ...	2	5 8 0	2 12 0	
	Nyanlè	1880 ...	do. ...	28	90 8 0	3 3 9	
	Do.	1883 ...	do. ...	18	79 8 0	4 6 8	
	Do.	1885 ...	do. ...	106	347 0 9	3 4 4	
	Do.	1886 ...	do. ...	73	156 7 9	2 2 3	
			Total Bawbin range ...	546	1,419 15 0	2 9 7	
THARRAWADDY	Myaing	1883 ...	Teak ...	28	28 0 0	1 0 0	
	Do.	1885 ...	do. ...	79	197 0 0	2 7 10	
	Minhla	1881 ...	do. ...				
	Do.	1882 ...	do. ...	238	362 0 0	1 8 3	
	Do.	1883 ...	do. ...				
	Do.	1885 ...	do. ...	186	314 0 0	1 7 11	
	Do.	1886 ...	do. ...	90	178 12 0	1 15 9	
			Total Gamôn range ...	573	1,109 12 0	1 15 0	
	Môkka	1878 ...	Teak ...	786	439 0 0	0 8 11	
	Do.	1880 ...	do. ...	109	128 8 0	1 3 2	
	Do.	1882 ...	do. ...	94	140 0 0	1 8 10	
	Do.	1883 ...	do. ...	210	702 0 0	3 5 6	
	Do.	1885 ...	do. ...	280	720 0 0	2 6 0	
	Do.	1886 ...	do. ...	150	368 1 0	2 7 3	
	Kadin-Balin	1882 ...	do. ...	101	178 9 6	1 12 3	
	Do.	1883 ...	do. ...	68	137 9 7	2 0 4	
	Do.	1885 ...	do. ...	206	661 0 0	3 7 9	
	Do.	1886 ...	do. ...	31	76 0 0	2 7 3	
	Kôn-Bilin	1879 ...	do. ...	41	35 0 0	0 13 8	
	Do.	1882 ...	do. ...	37	25 0 0	0 10 10	
	Do.	1883 ...	do. ...	46	304 11 1	6 5 7	
	Do.	1885 ...	do. ...	46	118 5 0	2 7 4	
	Do.	1886 ...	do. ...	35	90 6 0	2 9 4	
	Thônzè	1882 ...	do. ...	15	47 0 0	3 2 1	
	Do.	1883 ...	do. ...	9	95 0 0	10 7 9	
	Do.	1885 ...	do. ...	42	104 1 0	2 7 8	
	Do.	1886 ...	do. ...	22	52 1 0	2 5 10	
			Total Bilin range ...	2,390	4,424 4 2	1 13 7	
			Total Tharrawaddy ...	3,858	7,717 11 2	2 0 0	
RANGOON ...	Zamayi ...	1884 ...	Teak ...	218	103 0 0	0 7 0	
		1885 ...					
		1886 ...					
		1884 ...	do. ...	19	47 8 0	2 8 0	
		1885 ...					
		1886 ...					
			Total Rangoon ...	237	150 8 0	0 10 2	
TOUNGOO	Saing Yènè	1884 ...	Teak ...	15	7 8 0	0 8 0	
	Do.	1885 ...	do. ...	21	20 8 0	0 15 7	
	Do	1886 ...	do ...	20	35 8 0	1 12 5	
	East Swa	1883 ..	do. ...	19	27 0 0	1 6 9	
	Do.	1884 ...	do ..	28	45 8 0	1 9 1	
	Do.	1885 ...	do. ...	43	47 8 0	1 1 8	
	Do.	1886 ...	do. ...	76	25 0 0	0 5 3	
	Bôndaung	1883 ...	do. ...	17	12 0 0	0 11 3	
	Do.	1884 ...	do. ...	7	5 0 0	0 13 8	
	Kabaung	1883 ...	do. ...	4	2 8 0	0 10 0	
	Do.	1884 ..	do.	3			
	Do.	1885 ..	do.	90	77 0 0	0 12 5	
	Pyunchaung	1884 ...	do.	7	18 0 0	2 9 1	
	Do.	1885 .	do. ...	30	9 0 0	0 4 10	
			Total Toungoo ...	390	538 0 0	0 13 8	

APPENDIX O.

Division.	How extracted.	Teak.	Other reserved trees.	Unreserved trees.		Bamboos.	Cutch.	Charcoal.	Wood-oil and resin.	Shaw bark.	Thatch.	Fuel.	Cattle grazed.	Cheroot-leaves.	Honey.
				Logs.	Posts and poles.										
		Tons.	Tons.	Tons.	Tons.	Mille.	1,000 viss.	100 baskets.	Viss.	100 viss.	Bundles.	Cart loads.	Head.	Viss.	Viss.
Prome	By Government	1,645	...	...	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	566	...	16,621	3,460	13	3,703	280	6,900	19	100	23	...	...	...
	„ right-holders	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	„ free grants	41	...	...	...	...	...	...	...	...	...	...	...	...	...
Thayetmyo-waddy.	„ Government	15,957	...	...	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	219	15	4,130	1	782	750	330	4,700	111	2,806	53	295	7,650	150
	„ right-holders	...	...	...	...	27	...	...	...	...	...	...	1,935	...	...
	„ free grants	16	...	...	...	...	...	...	...	...	...	...	...	...	...
Rangoon	„ Government	5,457	...	24	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	148	22	14,157	690	773	4	4	76	50	400	...	323	...	...
	„ right-holders	...	9	...	...	560	...	...	...	...	...	...	...	...	...
	„ free grants	13	...	...	...	...	...	...	...	...	...	...	...	...	...
Toungoo	„ Government	5,713	...	...	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	248	970	12,805	690	45	3	29	4,309	33	...	...	...	...	...
	„ right-holders	...	...	4	1	...	...	...	...	...	...	...	...	...	...
	„ free grants	29	24	...	...	...	...	...	...	...	...	...	...	...	...
Shwegyin	„ Government	348	407	...	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	63	423	2,496	...	...	...	184	600	...	200	...	...	...	...
	„ right-holders	...	...	...	...	...	...	...	...	...	...	1	...	...	...
	„ free grants	15	3	66	...	...	...	...	...	...	...	...	...	...	...
Western	„ Government	79	196	221	...	...	...	...	...	...	...	...	...	...	...
	„ purchasers	45	136	20,668	4,344	...	31	21	60	...	...	...	...	...	...
	„ right-holders	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	„ free grants	98	70	...	...	...	...	...	...	...	...	...	...	...	...
Agency	„ purchasers	...	523	40	180	...	...	...	...	...	...	6,798	...	...	...
	Total	30,700	2,798	71,272	9,872	2,200	4,491	848	16,645	213	3,506	6,804	2,553	7,650	150

APPENDIX P.

Division.	Balance on 1st April 1887.				Arrivals during the year.				Sales and disposals during the year.				Balance on 31st March 1888.			
	Logs.				*Logs and scantlings.*				*Logs and scantlings.*				*Logs.*			
	Teak.	Teak drift.	Other woods.	Other woods, drift.	Teak.	Teak drift.	Other woods.	Other woods, drift.	Teak.	Teak drift.	Other woods.	Other woods. drift.	Teak.	Teak drift.	Other woods.	Other woods, drift.
Prome	1,966	...	...	...	1,592	70	...	...	2,127	...	...	...	1,431	70	...	...
Tharrawaddy	13,323	...	...	...	11,707	163	...	...	14,116	163	...	...	10,914	...	...	...
Rangoon	5,784	6	...	3	5,116	752	3	5	5,347	758	3	8	5,553	...	...	...
Toungoo	3,798	...	15	...	4,158	...	2	...	6,669	...	17	...	1,287	...	...	...
Shwegyin	...	...	...	...	58	...	...	...	...	...	...	...	58	...	...	...
Agency	54*	69	...	5	...	286	...	2	10*	314	...	7	44*	41	...	...
Western	..	...	...	...	...	43	...	1	...	43	...	1	...	...	...	...
Total ...	24,871 54*	75	15	8	22,631	1,314	5	8	28,259 10*	1,278	20	16	19,243 44*	111	...	...

* Sleepers.